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 <212> DNA
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 <211> 580
 <212> DNA
 <213> Homo sapiens

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<210> 769
 <211> 531
 <212> DNA

<213> Homo sapiens

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<210> 770

<211> 1072

<212> DNA

<213> Homo sapiens

<400> 770
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<210> 771

<211> 1271

<212> DNA

<213> Homo sapiens

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<210> 772

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 772

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<210> 773

<211> 980

<212> DNA

<213> Homo sapiens

<400> 773

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<210> 774

<211> 1224

<212> DNA

<213> Homo sapiens

<400> 774

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<210> 775

<211> 1232

<212> DNA

<213> Homo sapiens

<400> 775

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 <212> DNA
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 <212> DNA
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 <212> DNA
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 <211> 437
 <212> DNA
 <213> Homo sapiens

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<210> 781
 <211> 476
 <212> DNA
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<400> 781
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ggccagatgg gcagcccat ggagcccctt ggggggtgctg acctgcacct gggcgccgtg 120
acatcccctg tgggcacagc ccgcgtgctg cagctggcct ttggctgcac taccttcagc 180
ctgggtggctc accgggggtgg ctttgcgggc gtccaggga ccttctgcat ggcgccttgg 240
ggcttctgct tcgcccgtctc tgcgctggtg gtggcctgtg agttcacacg gctccacggc 300
tgccctgccc tctcctgggg caacttcacc gccgccttcg ccatgctggc caccctgcta 360
tgcgcgaagg ctgcggtcct gtatccgtg tactttgcc ggcgggagtg tcccccgag 420
ccgcgcggct gtgctgccag ggacttcgcg ctggcagcca gtgtcttcgc cgggct 476

```

```

<210> 782
<211> 753
<212> DNA
<213> Homo sapiens

```

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<400> 782
ctcccaaagt gccaggatta caggcgtgag ccaccacgcc cagcctaggt tttaagcctc 60
acatgtatta ggtatattata ctaatgctct cctcccctt gcctccacc cactgtaaaa 120
ataattttta tactcttctg catttgctaa atttctctc attagcaggt tataccttta 180
tgatcagaaa aaaaattaaa cactgcttct aaaaaatact catctccagc acttgagat 240
cacctacctc tacattctac ocaactgagc ccaatttagt cttctcaggg ctttgccaa 300
gaacagttca ggaatgcatg cctctgaagg ccttctgct cttccccttc tggccttggg 360
atctcattct cattcctgcc ctcccctacc tctccaacc catcacttgc cagccatcct 420
gttcttctct gttggtcctc agttaatgaa gtgtattagg tgacctgagt acttgtcagt 480
acttcccaga ggcaagaaca ttctcgcag atcaaggtag ctttaagagc caagaagctc 540
agatttggag gcgggagagc tgtactgcat cccctcaaat gtttagcagt ccaagaaatg 600
agacgctagt ctagggggca ccacaagcag aaaggggctg tttcaaggag tcgtccgccc 660
atgggagctc cctcttctat tattcacctt gctccaagga tatcttttct ttacgtatg 720
aaaattttgt aattgttcaa ctataacacc atg 753

```

```

<210> 783
<211> 769
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = a,t,c or g

```

```

<400> 783
tttcgtagct gatggaagat gagccccaac ttctaaaaat gtatcactac cgggattgag 60
atacaaacag catttaggaa ggtctcatct gagtagcagc ttctgcccct ccttcttggg 120
gataagtcgg gcttttgggtg agacagactt tcccaccctt ctgcccgcgc ggtgcccatt 180
cttctgtggc tgctgctgct gatcctgact cctggaagag aacaatcagg ggtggcccca 240
aaagctgtac ttctcctcga tccctcatgg tccacagcct tcaaaggaga aaaagtggct 300
ctcatatgca gcagcatatc acattcccta gccagggag acacatattg gtatcacgat 360
gagaagttgt tgaaaataaa acatgacaag atccaaatta cagagcctgg aaattaccaa 420
tgtaagacct gaggatcctc cctcagtgat gccgtgcatg tggaattttc acctgactgg 480
ctgatcctgc aggcctttaca tctgttttt gaaggagaca atgtcattct gagatgtcag 540
gggaaagaca acaaaaacac tcatcacaag gtttactaca aggatggaaa acagntttct 600
aatagttata atttagagaa gaatacagtg gattcagctt cccgggataa tagcccatat 660
tattgtgctg ggtaaaagag agtttacata cttgggattg gagaacttta aaaccccca 720

```

ttatccaagt ttacgggaag gggcctatac tccggagtag cagggggggg

769

<210> 784
 <211> 979
 <212> DNA
 <213> Homo sapiens

<400> 784
 cagaggctcg ggaaggggcg tggatccccg gaggcggtcc ccgggttgca gtgagggaag 60
 tggggccggga ggagagatgg gcggtgaaga ggccccggcc tgccaggagag gcgggaggat 120
 ccgtggcagt gaccagaagg ggccggaagg ggggtggccgc cggccgggccc ccgccctggg 180
 gccgcctccc cgcgggttcc gttggctgtg gcggcagctg acgcttggtg cggcgggtggc 240
 ttcgggggtgg gcgtaagatg gcgacagcag cgcagggacc cctaagcttg ctgtggggct 300
 ggctgtggag cgagcgcttc tggctacccg agaacgtgag ctgggctgat ctggaggggc 360
 cggccgacgg ctacggttac ccccgcgccc ggcacatcct ctcggtgttc ccgctggcgg 420
 cgggcatctt ctctgtgagg ctgctcttcg agcgatttat tgccaaaccc tgtgactacc 480
 gtattggcat cgaggacagt ggtccttatc agggcccaacc caatgccatc cttgaaaagg 540
 tgttcataatc tattaccaag tatcctgata agaaaaggct ggaggggctg tcaaagcagc 600
 tggattggaa tgtccgaaaa atccaatgct ggtttcgcca tcggagggaat caggacaagc 660
 ccccaacgct tactaaattc tgtgaaagca tgtaagtacg caaggaggga gggagggaat 720
 aagggaagac gtgggataca actggactga agtttctgtt ttgaacatca cttctgttgt 780
 taggacaaca gttaatggat atagagaact aactcagcct attataggta ggaaagaagg 840
 gaactggaaac actgattccc ttaagtttct tgggcatggt gccactaagc taggtgtggt 900
 tctattttgt tcctttttcc taaatagatt gggagtaaat ccttataact gtacttatgt 960
 aagtagatgt actaacaca 979

<210> 785
 <211> 550
 <212> DNA
 <213> Homo sapiens

<400> 785
 ctttcgtgga agaaggaaga agagggtaga ggaggagagg gaggaggagg agggaggtgg 60
 cggcgccgtg gcggaggagc aggagcagga gggggatgga gaggagaagg ctcttgggtg 120
 gcatggcgct cctgtccctc caggcgctgc ccagccctt gtcagccagg gctgaacccc 180
 cgcaggataa ggaagcctgt gtgggtacca acaatcaaag ctacatctgt gacacaggac 240
 actgctgtgg acagtctcag tgctgcaact actactatga actctgtggg ttctggctgg 300
 tgtggaccat catcatcatc ctgagctgct gctgtgtttg ccaccaccgc cgagccaagc 360
 accgccttca ggcccagcag cggcaacatg aaatcaacct gatcgcttac cgagaagccc 420
 acaattactc agcgttgcca ttttatttca ggtttttgcc aaactattta ctacctcctt 480
 atgaggaagt ggtgaaccga cctccaactc ctccccacc atacagtgcc ttccagctac 540
 agcagcaacg 550

<210> 786
 <211> 932
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (932)

<223> n = a,t,c or g

```

<400> 786
tttcgtcccc taccgccagg cgatecgcgt gatggcggcg ctggcagcag cggccaagaa    60
ggtgtggagc gcgcggcggc tgctgggtgct gctgttcacg ccgctcgcgc tgctgcgggt    120
ggtcttcgcc ctcccgccca aggaaggccg ctgcttggtt gtcacccctgc tcatggcggt    180
gtactgggtgc acggaggccc tgccgctctc agtgacggcg ctgctgcccc tegtctctct    240
ccctctcatg ggcattcttc cctccaacaa ggtctgcccc cagtacttcc tcgacaccaa    300
cttctctctc ctcaagtggc tgatcatggc cagcgccatt gaggagtggg acctgcaccg    360
gcgaatcgcc ctcaagatcc tgatgcttgt tggagtccag ccggccaggc tcatcctggg    420
gatgatgggtg accacctcgt tcttgctccat gtggctgagc aacaccgcct ccactgccat    480
gatgcttccc attgccaatg ccacccctgaa aagtctcttt ggccagaagg aggttcgaaa    540
ggacccccag ccaggagagt gaagagaaca cagggaatag aacccaataa cctntcctct    600
ctgaggaaag gctgaaactt caagctcccc ttgtgataag acttggtcag ataactgagt    660
ctggtcaatg gaatatgagt ggaaatgatg tgtgcaactt ccgggttctg tccttctctgc    720
cgggtggaat gtgaatatga tggcacctgg gacccaaaga caggagccac atcttgagag    780
atagatggca gatctgcccc tgtggctttg gatcatttac ctgagtgaac acaacaagca    840
ttatccatga aaccataggt tttgtgtgct agttctagtt tttaaaatat gaattaaatt    900
aaatacgtat ctgttaaaac ttaaaaaaaa aa                                932

```

<210> 787

<211> 514

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)...(514)

<223> n = a,t,c or g

```

<400> 787
tttcgtctgg agcaggcggg aaagcgctgg agagaagggg gcacctggat aaccacccat    60
cttgaaggag acctccctgc cctgcctctg ttgtcccca gagcactgcc tgatcatcct    120
ctgttcccca tcttcccagc ccttccctgc gtacctgtgg ggagctgato tctcagctcc    180
cctgtctttt ccccggtctg ccatcaccac ccaccacca tgcacccctc tctgggtac    240
tggtcctggt actgtctact cctgctatct tcttgggag tccaggggtc cctgggggtc    300
cccagcgtg ccacagagca agtccatctg tottaccag gtgagccagg ctccatgact    360
gtaacttgga ccacatgggt cccaaccgcg tctgaagtgc aattcgggtt gcagccgtcg    420
gggccctgc cctccgcgc ccagggcacc ttctgcccct ttgtggacgg nggcattctc    480
cggcggaagc tctacatata ccgagtcacg cttc                                514

```

<210> 788

<211> 469

<212> DNA

<213> Homo sapiens

```

<400> 788
cccgtaattc tcgggtcgac gatttcgtgg cgcggaggag ctctgtccgg aatcacatag    60
ataccatcgt ggaaacagca gcgcaggtca cggcgccgcg ggccctgcac cagacgctgg    120
gctctagaga ttatttctct ttattcagaa gcatacagtt gtttctgat tgcaagaaga    180
tgtttctgtg gctgtttctg attttgtcag ccctgatttc ttcgacaaat gcagattctg    240
acatatcggg ggaaatttgc aatgtgtggt cctgcgtgtc agttgagaat gtgctctatg    300

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tcaactgtga	gaagggtttca	gtctacagac	caaatacagct	gaaaccacct	tggtctaatt	360
tttatcacct	caattttcaa	aataattttt	taaataattct	gtatccaaat	acattcttga	420
atthttcaca	tgagtcctcc	ctgcatctgg	ggaataataa	actgcagat		469

<210> 789
 <211> 525
 <212> DNA
 <213> Homo sapiens

<400> 789						
ggactttctcg	ggtcgacgat	ttcgtgcccc	ctcggatgaa	tgggaccgaa	gctgactgcg	60
aactacagct	tcttggcagc	gtcgggtgtt	gccgcgggag	aaggggagac	cgcggcggcc	120
cccagtgaga	gcggccttcc	aggacgggtc	gatgtgctgc	gcagcgaaga	ggcaggaggc	180
cggtctcctg	gggtagcggg	acaggcgggc	gcttactctg	tgcgcttgct	tccccaacc	240
tgcaccggcc	atgcgccggg	ccttggcggg	gggcctgggt	ttcgcaggct	gctgcagtaa	300
cgtgatcttc	ctagagctcc	tggcccgga	gcataccagga	tgtgggaaca	ttgtgacatt	360
tgcacaattt	ttatttattg	ctgtggaagg	cttctctctt	gaagctgatt	tgggaaggaa	420
gccaccagct	atcccaataa	ggtactatgc	cataatgggt	accatgttct	tcaccgtgag	480
cgtgggtgaac	aactatgccc	tgaatctcaa	cattgocatg	ccct		525

<210> 790
 <211> 377
 <212> DNA
 <213> Homo sapiens

<400> 790						
ggaccccatg	tcaaaaaatac	aaaagatatg	ttgaagtccc	aactcctgat	aactcaaatg	60
tgactgtgtt	gggaacatct	ggagtcctta	cagagataat	caagttaaaa	tgaggtcatt	120
agtgtgggtc	ctaataccaac	aactgacgcc	cttatataaaa	ggagaaacct	ggacacagac	180
atgcacagaa	gaccatgtga	ccatgaaggc	agagatcaga	gtgatgcttc	tagaagccag	240
ggaagattgc	cagttaatga	ccaaaagaag	ccaggagaca	ggcctgcaac	ggattctgcc	300
tgaaggctcc	cagaagggaac	caaccctgac	aacaccttga	tcttggaactt	ccaacctcca	360
gagctgggag	gcgacac					377

<210> 791
 <211> 637
 <212> DNA
 <213> Homo sapiens

<400> 791						
ataaacttgt	tttaaatgtg	cttattgctg	gtctctcaag	gcttcttatt	tttgtttgc	60
ttagtctctc	taaaatttca	gggaaaaact	atgagtctca	aaatgcttat	aagcagggaac	120
aagctgattt	tactactagg	aatagtcttt	tttgaacgag	gtaaatctgc	aactctttcg	180
ctccccaag	ctcccagttg	tgggcagagt	ctggttaagg	tacagccttg	gaattatttt	240
aacattttca	gtcgcattct	tggaggaagc	caagtggaga	agggttccta	tccctggcag	300
gtatctctga	aacaaaggca	gaagcatatt	tgtggaggaa	gcatactctc	accacagtgg	360
gtgatcacgg	cggctcactg	cattgcaaac	agaaacattg	tgtctacttt	gaatgttact	420
gctggagagt	atgacttaag	ccagacagac	ccaggagagc	aaactctcac	tattgaaact	480
gtcatcatac	atccacattt	ctccaccaag	aaaccaatgg	actatgatat	tgcccttttg	540
aagatggctg	gagccttcca	atttggccac	tttgtggggc	ccatatgtot	tccagagctg	600

cgaggagcaat ttgaggctgg ttttatttgg acaactg

637

<210> 792
 <211> 881
 <212> DNA
 <213> Homo sapiens

<400> 792
 agggatatata gagaaaagga tctcatgtat tgctctactt ttttcttcta gatacctggt 60
 aacttcttac gctttcatga tacatttata tagttctggt attcaagtta aagtattata 120
 cagtttaagtc tatggcagag tcagattctt ttatgtgtct aactggtgag aagtatagac 180
 ttcttatatc ttatatgggtg accattaaca tataacgagc atgctagcat attgttgtct 240
 ttgagagcac cgtatcaact ttttgatctg tagaatgaca gaagccacat tctgatactct 300
 gcgactctgg ttaataatcc tgctgtgtgc tttgcggttg gccatgatgc gtagtcacct 360
 gcaagcttat ttaaatttag cccaaaaatg tgtggatcag atgaagaaag aagcggggcg 420
 aataagcacg gttgagctac agaaaaatgg ggctcgagtc ttttattatc tttgtgtcat 480
 tgcactgcag tatgtggcgc ctctggtaat gctgcttcac acaactctgc ttttgaaaac 540
 actaggtaat cattctggg gtatttatcc agaactctac tctaccttac cagtggataa 600
 tagtctactg tccaattctg tttactctga attaccatca gctgaaggga aaatgaagca 660
 taatgcaagg caaggtccag ccgttcacc cggcaatgcaa gcttatggag cagccccctt 720
 tgaagatctc cagctagact tcacagagat gccaaagtgt ggagatctta ttcttagatt 780
 tggactgccc ttacggatcg gctcagataa tgggctggcg tttgtggctg acttggtaca 840
 gaagacggca aagtggaaag gacccagat tgtcgtctcg c 881

<210> 793
 <211> 622
 <212> DNA
 <213> Homo sapiens

<400> 793
 atgagttttc cgttcatca tctgcttctg ttttctccat cttagtttgc ccaaagcttg 60
 ctggccgctg gtagggctg gtgagtggt ggggctgtct gagccatgaa caacttcagg 120
 gccaccatcc tcttctgggc agcggcagca tgggctaaat caggcaagcc ttcgggagag 180
 atggacgaag ttggagttca aaaatgcaag aatgccttga aactacctgt cctgggaagt 240
 ctacctggag ggggctggga caatctgcgg aatgtggaca tgggacgagt tatggaattg 300
 acttactcca actgcaggac aacagaggat ggacagtata tcatccctga tgaaatcttc 360
 accattcccc agaaacagag caacctggag atgaactcag aaatcctgga atcctgggca 420
 aattaccaga gtagcacctc ctactccatc aacacagaac tctctctttt ttccaaagtc 480
 aatggcaagt ttccactga gttccagagg atgaagacc tccaagtga ggaccaagct 540
 ataactaccc gagttcaggt aagaaacctc gtctacacag tcaaaatcaa cccaacttta 600
 gagctaagct caggttttag ga 622

<210> 794
 <211> 1177
 <212> DNA
 <213> Homo sapiens

<400> 794
 tttcgtcttg gcatagcctg cttagggggt gcagctgcat ctctgcctc tggcattccc 60
 gcagcagatg cacatggccc tgcaactgaga agcggccagc tcaactgcacc tgcactcagg 120

aattgtagga	ctccctctag	gagttgggca	catgtcggtg	gtgggagccc	tgtccctgcc	180
ttgagaaagc	tgtagggtgt	ctgtgtccag	ctgtgcacct	gtcctttggt	tttgtgagtc	240
ttcttggatg	cacctgaatc	ctgcattcag	gaggcctatc	ccttgtttct	tgctagcaac	300
cctgcctgct	atctctcttc	cggtgccctc	tcagccatca	gaccagagct	tgcttcttcc	360
ctgcttgggc	agggaaagtgc	caggtaaagg	gtggtctcct	ttagccacaa	ggggtggctg	420
accttatgac	ctcccgccctc	tgagcagaaa	ggtgacaggc	tgcttttggg	taccctcagg	480
gcccagcaga	gtccctctgag	aggcagcctc	tggtgggagc	agggtggcaca	actttgttta	540
gctctacaag	gcaggaggag	tttaatatga	cttctcatta	gcactgaaat	ttgtttccaa	600
agcacttggt	tgtacaatat	tttaatttaga	tcttctcagt	gggcctgtgg	gttagaatag	660
catgtgggat	tgatgggttc	atcattttac	atctaaggaa	aatgagcctt	cgggtggggac	720
ctgcctggag	gcacttaaca	tgccttggga	ctaaacactc	caaggcaaac	tctgttctgg	780
caagccaaca	tgcgggttc	tttgtggctc	aagggcgatg	ggcgattcac	agggccttct	840
cgagcaggac	ttctcccaca	cctcctcgtg	ggcccctgct	gctgcctggc	agacacccgc	900
tcctttcccg	acgacgagct	caggcgatcc	ggtcctcgac	ggggccgtcg	ttgccggcgc	960
acctctttaa	acctgctcct	gcgatcgccg	tcatagtctc	tcgctccgc	ttccccgcgc	1020
gtacttcacc	gtgtcacctc	agcggtcctc	cgcgcgcctc	gtgccgtact	ctccacacgc	1080
ttctccggcc	ggtctgcgtc	gtccgcgcga	cgcgcgcctg	cttcttcacc	tcattcactc	1140
ctgcccagagc	tgcgggtggcg	tcacatccaa	caccccg			1177

<210> 795

<211> 599

<212> DNA

<213> Homo sapiens

<400> 795						
tgtggtggaa	ttcgattgag	gccccatct	gtctgacttt	tcctcgtgtg	acccatcttt	60
tcaaattccc	ttacctgagg	aaggagcccg	attacaagga	tatttacctg	ctcccaccgc	120
gatctaggct	ctctgtttcc	tcgagtcact	cccagattag	tggtgtctag	ctcagcactg	180
tttctgttat	acttcattca	taattcccag	cgtctgttga	cgaggatggg	aagaccgcct	240
gtggccatga	gcccctcccg	gtgctcctgg	ggctaaggct	ggggctgcag	ccatggggct	300
gggtcagccc	caggcctggg	tgctgggtct	gcccacagct	gtggtctatg	gctccctggc	360
tctcttcacc	accatcctgc	acaatgtctt	cctgctctac	tatgtggaca	cctttgtctc	420
agtgtacaag	atcaacaaaa	tggccttctg	ggtcggagag	acagtgtttc	tcctctggaa	480
cagcctcaat	gacccctctc	tcgggtggct	cagtgaccgg	cagttcctca	gctcccagcc	540
cgggtcaggc	gcccgggtct	cctcaagggc	tgtggtgctg	gcccgggtgc	aggccctga	599

<210> 796

<211> 709

<212> DNA

<213> Homo sapiens

<400> 796						
tttcatgtgt	ctctggattc	caggctgcca	ttggccctcc	actatgtgtc	ccagtgtctg	60
cattctgccc	tattctgacg	taggcatctc	atcagatggc	tgactcagtc	ttacttttgg	120
tgttcaccag	ctgctgtctt	tcagagctgt	ctctggtttg	ctctgatttt	aggccaacct	180
ccatctcata	ccagagcagg	tacggctctg	gggatggctg	gatcagggtg	aagtctgaag	240
tgagagaaac	ccagtgaagg	tcaacattgt	ctacagtgc	ttagaatgca	acttacaata	300
ccatcaccaa	taacatcctc	ttgcattcag	tactttgcaa	tttacaagc	acatttatgc	360
tcactatctc	atttgctcct	ccaacaattt	tggaaggtag	acttaagtag	ctctgtttag	420
gctgggcaca	agggtccaca	cctgtaatcc	cagcactgtg	ggaggctgag	gcaagcggat	480
cacgagatca	aaagatcgag	accatccttg	ctaacacggg	gaaaccccat	ctctactaaa	540
aatacaaaaa	attaaccaag	cgtgctggcg	ggcgctgtga	gtcccagcta	cttcgggaagc	600
cgagcaagaa	aatgacgtga	acccggaag	tgagagcttg	agtgagccct	aatcgaccca	660

ctgcacttca gcctgggcga cagagggaga ctccatttca aaaaaaaaaa

709

<210> 797
 <211> 389
 <212> DNA
 <213> Homo sapiens

<400> 797
 cgagcggaga ggagatgcac acggcactcg agtgtgagga aaaatagaaa tgaaggatca 60
 tatgcacaca aaattttgcc tcattttgtt gctgacattt atttttcatc attgcaacca 120
 ttgccatgaa gaacatgacc atggccctga agcgcttcac agacagcatc gtggaatgac 180
 agaattggag ccaagcaaat tttcaaagca agctgctgaa aatgaaaaaa aatactatat 240
 tgaaaaactt tttgagcgtt atgggtgaaa tggaagatta tccttttttg gtttgagaa 300
 acttttaaca aacttgggcc ttggagagag aaaagtagtt gagattaatc atgaggatct 360
 tggccacgat catgtttctc atttaata 389

<210> 798
 <211> 480
 <212> DNA
 <213> Homo sapiens

<400> 798
 ccctcctgca taggctcgag acatgtagct cagcttgccc gttacctgaa 'cagcgggcgc 60
 agtcggggccc ctgaacggtc accatgtggg ccttttcgga attgaccatg cagtccatga 120
 tcaatatgat tgtctccctg ctgggggttag tggccacagt caccctcatc ccggccttcc 180
 ggggccattt cattgctgcg cgctcggtg gtcagtcctt cggcaaaacc agccgtcagc 240
 atatgtgagc agcggcacac ggggtccggc agggggcaag ggctaaggaa ggagtggcta 300
 gggcaggggc gggaaaccgg gtgcttgacc acacgtgaag actcagaact aaccagga 360
 gcctggaact cggagaggtg atgagcagaa ctactcgca ttggggaaag gatgggtagg 420
 gaccctaggg tatatctggg actctggcag tgggtgcttc ctccctccgc cccttgatt 480

<210> 799
 <211> 639
 <212> DNA
 <213> Homo sapiens

<400> 799
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<210> 800
 <211> 412
 <212> DNA
 <213> Homo sapiens

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 <211> 423
 <212> DNA
 <213> Homo sapiens

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 <211> 524
 <212> DNA
 <213> Homo sapiens

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<210> 803
 <211> 475
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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<210> 805
 <211> 344
 <212> DNA
 <213> Homo sapiens

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<210> 806
 <211> 1208
 <212> DNA
 <213> Homo sapiens

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tcggtttg						1208

<210> 807
 <211> 432
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n = a,t,c or g

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<210> 808
 <211> 483
 <212> DNA
 <213> Homo sapiens

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cag	

<210> 809
 <211> 768
 <212> DNA
 <213> Homo sapiens

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 gtactgggtt ccagaaatac ctggaacctt gcatgacaga ggccgagg 768

<210> 810
 <211> 473
 <212> DNA
 <213> Homo sapiens

<400> 810
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 ttcaaagctg taaggggagg taactccagg actatctcag gtggaatatg cacttcgcag 420
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<210> 811
 <211> 14139
 <212> DNA
 <213> Homo sapiens

<400> 811
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gactcccatg aagaactgcc acottctacc cgctgcagtc ttggatggtc taccatgca 840
gaaatcagtg gccaggaagg cagggcctac tgctgggata tcaggggcaag tgcccagtc 900
aagaaagcca ctgtaatgtc ctgtaggcaa agccaggctc agtggacagc ctactgagc 960
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agcaggggca gctctctcag atagcggagt agctgattca cggaatcggg gagctggatc 1140
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tgggcagaaa ggaagctgac tgtggcattg gtgtgagccc agggcagctg caagctggggc 1260
cgcaccacgg ttagcagggt ggagccccag agcggcagtg tctccccag ccagctgtag 1320
ccttgcagac ttaggagta gagcttggca cacgcttggt ggctagcagg taagaagcca 1380
gatgatcgaa gcaaccggcc agtaagggag gcctggaagg agctgtgtga ccggaggtca 1440
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cgaggaccct gaacctgtct caacaggccc ttgcaggcca tgtcacaggt gacgacatcc 1560
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gtttcttgca aagacttctg taccttcttg ggaatctgct ccaggagct gagcaagtgc 1680

tccagcagaa	ggctggactg	tgacaggtgc	ttaggggtaca	gctgcctcca	gacgctggca	1740
ctgagggggg	ccacogtcag	gcactcagtc	aggctgctca	ggagctgaat	gtgctctctc	1800
ttgggatcca	tcttctgagg	gtgaagctcg	agtgaagcgg	gcaggcagct	gtcaacaggg	1860
agctctttct	tcattctcag	gggacagcta	gg			1892

<210> 817
 <211> 687
 <212> DNA
 <213> Homo sapiens

gtgtgggtgga	attcctggag	ccgggatagg	gctgcggtgg	gaccaaagcc	tgtgagagac	60
ttcccagctg	tctggcttgt	ggactgagca	atctgcggcc	cggctctcgag	gggaaaatag	120
gtctgtggtc	cgcaaggccc	cagtggagcc	cttgggttcc	cgcagaaccg	actgggtctc	180
cagtagtctc	tgaggagccg	ctcgaccttc	tcccgaccct	ggatctgagg	caggagatgc	240
ctcccccgcg	ggtgttcaag	agctttctga	gctgctctt	ccaggggctg	agcgtgttgt	300
tatccctggc	aggagacgtg	ctggctcagca	tgtacagggg	ggtctgttcc	atccgcttcc	360
tgttcacggc	tgtgtcgcgt	ctgagcctct	ttctgtcagc	attctggctg	gggcttctgt	420
acctggctct	tcctttggag	aatgaacctc	aggagatgct	gactctaagt	gagtaccacg	480
agcgcgcgcg	ctcccagggg	cagcagctgc	tgcaatttca	ggccgagctg	gataaaactcc	540
acaaggaggc	gtcccttggt	tgcggtgccc	cctccctgag	agaggtgcca	agctccgccc	600
tctcaaggct	ggaaccacct	tctatcgccg	aacctcttct	ctctcgtctc	cagctttatt	660
tatccgaccc	ctcatcatat	ctcgctcc				687

<210> 818
 <211> 372
 <212> DNA
 <213> Homo sapiens

cgctgagatg	tatacctggc	aggtagggcaa	taattagacg	agaataaaaag	acacttgcac	60
cattgcccaga	agtggtgtaaa	cttcttttttg	cttctttttcc	tggaggaata	gaagagagag	120
acagtcccca	atgtgtggag	aatttctctt	catcagcata	tatagctgtg	atatgtaaag	180
gagcatcaaa	ggtctcataa	gtttcoatcgt	cgtaaaaata	tacaaaaagg	gctgtcaatg	240
cttgagacat	cagaattaac	atacactctc	tcttcgtaac	agtcacgggt	tgctacctat	300
taaccgtccc	cggttaatac	cttttatcca	tagccggcca	ccacctcata	cccatccctt	360
gtgcctgta	tt					372

<210> 819
 <211> 445
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(445)
 <223> n = a,t,c or g

gtcagcttcg	gaanttccgg	gnagactcac	cgcgacggga	cttggtgggt	tcttgggtctc	60
------------	------------	------------	------------	------------	-------------	----

actgagttct	agtttgaagc	tgtttaccct	cgagctctc	tgactggcac	ccctgcctgc	120
ctgcccggcc	ctgcacaaca	tgcagccctc	cgccctcgag	ggccccggca	cgtttggctg	180
gtggcctctg	ctgagttctg	tgtctctgct	gctgctgctc	cagcctgtaa	cctgtgccta	240
caccacggca	ggccccccca	gagccctcac	cacgctgggc	gccccagag	cccacaccat	300
gccgggcacc	tacgtctcct	cgaccacact	cagtagtccc	agcacccaag	gcctgcaaga	360
gcaggcacgg	gcctgatgc	gggacttccc	gctcgtggac	ggccacaacg	acctgcccct	420
ggttctaagg	caggtttacc	acaat				445

<210> 820
 <211> 425
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(425)
 <223> n = a,t,c or g

<400> 820						
gtcctaatta	gaattatgct	gggcctaacc	atgaccaata	cgtggccata	ggtgggtaccg	60
gtgcgagagc	gagatcagct	caattaccca	ctcagactac	gatccgaaag	cataaccagt	120
tcagtctact	ggtgcccggga	agactggcca	aatcaggaaa	tgaggaagat	ctacaccact	180
gtgctgtttg	ccaacatcta	cctggctccc	ctctccctca	ttgtcatcat	gtatggaagg	240
attggaattt	cactcttcag	ggctgcagtt	cctcacacag	gcaggaagaa	ccaagagcag	300
tggcacgtgg	tgtccaggaa	gaagcagaag	atcattaaga	tgctcctgat	tgtggccctg	360
ctttttattc	tctcatggct	gcccctgtgg	actctaata	tgctctcaga	ctacgctaaa	420
ccgan						425

<210> 821
 <211> 706
 <212> DNA
 <213> Homo sapiens

<400> 821						
ggattgagtg	agcccaggag	gtctaggctg	cagtgagctg	tgatcacacc	tctgcactcc	60
agcctgggtg	acagagaaag	atcctgtccc	aaataactaa	gtaaataaga	tggcctgaac	120
acttgacccc	ctaaacctgc	tctgtcccag	tgtgcccctc	cgaaaatggg	ctgggttctg	180
tatgtaactg	ggcctctctc	ctgcagagat	cctctcagac	tccgaggagg	accgggtatc	240
ttctaatacc	aacagctatg	actacgggtg	tgagtaccgg	cggctgttct	tctaccagga	300
gaccacggct	cagatcctgg	tccgggcccct	caatcccctg	gattacatga	agtggagaag	360
gaaatcagca	tactggaaag	ccctcaaggt	gttcaagctg	cctgtggagt	tctgtctgct	420
cctcacagtc	cccgctgtgg	acccggacaa	ggatgaccag	aactggaaac	ggcccctcaa	480
ctgtctgcat	ctgggttatca	gccccctggg	tgtgggtcctg	accctgcagt	cggggaccta	540
tggtgtctat	gagataggcg	gcctcggtcc	cgtctgggtc	gtgggtgggtga	tgcaggcac	600
agccttggtc	tcagtgcact	tttttgccac	atctgacagc	cagcccccca	ggcttcactg	660
gctctttgct	ttcctgggct	ttctgaccag	cgcctgtggg	atcaac		706

<210> 822
 <211> 357
 <212> DNA
 <213> Homo sapiens

```

<400> 822
cggacgcggg ggcggacgct gggccttgct ccttcctcat tgggatcatc agtcagtga 60
ttggaaggaa atggggccatg ctgggtcaaca atgttctggc ggggctgggg ggcaccctta 120
tgggcctggc caacgttgct gactcctata aaatgtcat ccttgtaga ttctttttt 180
tcgcctactg acgcgctggg cttggagtcc cttctgggaa ctgccagcct gtggccactg 240
ctcctgagcc tcacagagct acctgccctc ctgcaaagt gactgctgac cttctgttcc 300
gaaagacccc gctacctcta cgtaatacat aatttcgagg gacctgccag aattagt 357

```

```

<210> 823
<211> 402
<212> DNA
<213> Homo sapiens

```

```

<400> 823
cgggtcgacc caccggtccg atccgagcta atcagtcaat acaagtcaca tgggtttatg 60
gatatgctcc atgacaagtg gtacaggggtg gttccctgtg gcaagagaag ttttgctgtc 120
acggagactt tgcaaatggg catcaaacac ttctctgggc tctttgtgct gctgtgcatt 180
ggatttggtc tgtccatttt gaccaccatt ggtgagcaca tagtatacag gctgctgcta 240
ccacgaatca aaaacaaatc caagctgcaa tactggctcc acaccagcca gagattacac 300
agagcaataa atacatcatt tatagaggaa aagcagcagc atttcaagac caaacgtgtg 360
gaaaagaggt ctaatgtggg accccgtcag cttaccgtat gg 402

```

```

<210> 824
<211> 348
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(348)
<223> n = a,t,c or g

```

```

<400> 824
ggcacgagag aggctatgag tacaatcagg acctgatccg caagggtcag gccacaagg 60
tgaagaaact ctocatcggt gtctccctgg ggacaggagg gnccccacaa gtgcctgtga 120
cctgtgtgga tgtgatattc agcagcatca ccggttactt acgttcgtat gtttttgggtg 180
tcaattatat gtgttactct cttcttttct attgtagctc tottcgatct ttacgccact 240
ctcgtctcact gtgtgtacgc gttttctact gactctcttc tgectgctgt gatgcttact 300
gcgcttctct gtagtctctt cttttctgtc tegttagatt tatcatcg 348

```

```

<210> 825
<211> 347
<212> DNA
<213> Homo sapiens

```

```

<400> 825
ggcacgagcc ggtgggtcta cagcgggaagg gagggagcga aggtaggagg cagggcttgc 60
ctcactggcc accctcccaa cccaagagc ccagcccat ggtccccgcc gccggcgcg 120

```

tgctgtgggt	cctgtgtgtg	aatctgggtc	cccgggcggc	gggggcccga	ggcctgaccc	180
agactccgac	cgaaatgcag	cggtcatgt	tacgctttgg	ctgctctgtc	atctgttgct	240
attgtatctc	agttcgtact	ggtcgggtccc	gggaaactgg	atagtctgga	gcagtcgatt	300
atgtactcgg	cactctcttg	agttgatgga	gtatcgatgt	gtggttg		347

<210> 826
 <211> 649
 <212> DNA
 <213> Homo sapiens

<400> 826						
ggcagagca	cctctttgag	ttccccagga	agaacccatt	tgactaaaa	acattattga	60
gcaaagtaga	tgttactaaa	gattttgaag	ggatgtgtag	tctttcatca	cctaccttgc	120
agcactcaag	tttacaacc	ctcattgggc	atgtgggggt	tcctgagtc	cctgtgggaa	180
gtggtttttt	gccatacacc	ttgtttcaga	gctcagcctc	agttagacag	ggcaggtccc	240
agtttccctca	tctacccctc	tccccacagc	acctctaatt	aaccagccct	tttcttacca	300
ctgagaaaatt	gaactctact	aaataattac	agccttgtgc	cacataatga	cgttttgggt	360
aacaggggac	cgtgtgtata	atgggtgtct	cataagaata	taataccatg	ggtttactat	420
acttttctat	atthagaaat	gttttagattt	aagttagata	tggttagatt	taaaatacgt	480
aacacaggct	ggacccggta	gctcatgcct	ggaatcccag	cactttggga	agccgagttg	540
ggtggatcac	ctgagggcag	gagtttgga	ccaccctggc	caacttgggg	gaccccatto	600
ttctaaaaaa	cacacattac	ctgggggggg	gcgagccctt	tatcctacc		649

<210> 827
 <211> 791
 <212> DNA
 <213> Homo sapiens

<400> 827						
ggcagagac	tgttcactac	ctcctctacc	tggccatggc	cggcgccatc	tgacagaagga	60
agagataccg	gaatttttga	ctctactggc	tgggttcctt	cgccatgagc	atcctggtgt	120
tccttacagg	aaacattctt	ggcaaataca	gctccgagat	caggccctgc	ttcttctca	180
ccatccctca	cctgctggtg	ccatgctggg	ctggcatgaa	ggtcttcagc	cagccccggg	240
cgctaaccgg	ctgcaccgcc	aacatggtgc	aagaggaaca	aagaaaggga	ctcctgcagc	300
gtccggctga	cctggccctt	gtcatatata	tcatacctgc	tggtctcttc	actctgttcc	360
ggggcctggt	ggtgcttgat	tgccccacag	atgcctgctt	tgtctatata	taccagtatg	420
agccatacct	gcgggaccct	gtggcctacc	ctaagggtgca	gatgctgatg	tacatgtttt	480
atgtcctgcc	tttctgcggc	ctggctgcct	atgctctcac	cttccctggt	tgctcctggc	540
ttccagactg	ggccttgggt	tttgctggag	gcacgggcca	ggcacagtgc	tcgcacatgg	600
gggcttccat	gcacctgcgc	acacccttca	cctacccgtg	gcctgaggac	acctggggct	660
gcttcttctg	gtgcaatctg	ctgtatgcgc	tgggccccca	cctgctggcc	taccgttgcc	720
ttcagtggcc	gcattcttc	caccagccac	caccctccga	ccccctagcc	ctccacaaga	780
agcagcattg	a					791

<210> 828
 <211> 348
 <212> DNA
 <213> Homo sapiens

<400> 828

```

aaaggaccat ttgcagaatt cagaaaaatt cttcagtttc ttttggctta ttccatgtcc      60
tttaaaaaact tgagtatgct tttgcttctg acttggccct acatccttct gggatttctg      120
ttttgtgctt ttgtagtagt taatgggtgga attggttattg gcgacggag tagtcatgaa      180
gctgtctctc attttcctca actattctac tttttttcat ttactctctt tttttccttt      240
cctcatctcc tgtctcctag caaaattaag acttttcttt ccttagtttg gaaacgtaga      300
attctgtttt ttgtgggttac cttagtctct gtgttttttag tttggaat                    348

```

```

<210> 829
<211> 638
<212> DNA
<213> Homo sapiens

```

```

<400> 829
cccacgcgtc cgccccaaagc tggtcattgga actgatgccc atcgggtctgc gggggctgat      60
gatcgcagtg atgctggcgg cgctcatgtc gtcgctgacc tccatcttca acagcagcag      120
cacctctctc actatggaca tctggaggcg gctgcgtccc cgctccggcg agcgggagct      180
cctgctgggtg ggaaggctgg tcatagtggc actcatcggc gtgagtgtgg cctggatccc      240
cgtcctgcag gactccaaca gcgggcaact ctcatctac atgcagtcag tgaccagctc      300
cctggcccca ccagtgcact cagtctttgt cctgggcgtc ttctggcgac gtgccaacga      360
gcagggggcc ttctggggcc tgatagcagg gctggtggtg gggggccacga ggctggtcct      420
ggaatttcctg aaccocagccc caccgtgcgg agagccagac acgcgccag ccgtcctggg      480
gagcatccac tacctgcact tcgctgtcgc cctctttgca ctcagtggtg ctgttggtgt      540
ggctggaagc ctgctgaccc caccocccaca gagtgtccag attgagaacc ttacctggtg      600
gacctggtct caggatgtgc ccttggaac taaagcag                                638

```

```

<210> 830
<211> 428
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(428)
<223> n = a,t,c or g

```

```

<400> 830
tcgatgaaga ccctgtttgt ggacagctac agtgagatgc ttttctttct gcagtcactg      60
ttcatgctgg ccacgctggg gctgtacttc agccacctca aggagtatgt ggcttccatg      120
gtattctccc tggccttggg ctggaccaac atgctotact acaccgcggg tttccagcag      180
atgggcatct atgcgcgtcat gatagagaag atgatcctga gagacctgtg ccgtttcatg      240
tttgtctaca tcgtcttctt gttcgggttt tccacagcgg tggtagcgtg gattgaagac      300
gggaagaatg actccctgcc gtctgagtc acgtcgacaca ggtggcgggg tttttctnan      360
acccctctct ntcttctaca taaactgtac tccacctgcc tggaaactgtc caactccacc      420
atngattg                                         428

```

```

<210> 831
<211> 892
<212> DNA
<213> Homo sapiens

```


<400> 831
 cccggaagct gggaaatgac ttattaacct tcatggcctc tgggtcttctg aggaagcagt 60
 ctgaggagcc cgagttttga aaaggggaagc aatcctccaa ggctgcgatt tccacagaaa 120
 tcacatgtga gccacagggtg tcatttttaaa atttctagta gcaacagaaa cgaggaataa 180
 acagatgggtg tttgagtcac tgaatttttg gaaggacttc aaatgtcaag cattattctc 240
 catgaacagg gtgatgaggg gtctggccat caccaccacc tgcctcctga gcatgctcca 300
 ggccatcacc atcagcccta gcatcttggtg gaatcatgct gctgtccagt atgtacacgg 360
 tcattctctt gttcaggcat gagagggtgat accagagcct tcgcaacacc agccgctccc 420
 caagagcctc cccagagaaa agggccatgc agaccagcct gtgtcttctg gaactggaac 480
 acggactacc caccctatg ttgaggcagc ttctgacagg ccttactgct tacggtcac 540
 ggtcatcagc ccaccgctt gcatctccag ctgcaagtca ctctgggccc agttctcaga 600
 caaggccaag tcggccacac caggggctct ctggggagcc tggagggaag ttgactcttt 660
 agtctgctgc atctcagcca ggagttcatc catcttgaag gtctgagggg cacggggata 720
 caacggggcca actggggccc ttcatagaat acccccacc tattcttttc cgaacctctc 780
 tccaaggctc tgaagactgc ctccgacgtc tgtctctcgc gcccgcgcca cccgtaaacc 840
 actacgactc ttcactcatt cctgcaagtc ttcactccct ctactccgat gc 892

<210> 832
 <211> 312
 <212> DNA
 <213> Homo sapiens

<400> 832
 catagaccca tgagatgtac ttgaacggcc tgagaagatt cagtcatgca ttgttgatgg 60
 gcgatatgac tgccagactt atgcgggtctt tgctggctgc acaacttaca tttgtatata 120
 ggggtggcgca tctaataaac gttgctcaac gcataagggg aaatcgtccc attaagaatg 180
 agagactact tgcattgctt ggagataatg aaaagatgaa tttgtcagat gtggaactta 240
 tcccgttgcc tttagaaccc caagtgaana ttagaggaat aattccggaa acagctacac 300
 tgtttaaaag tg 312

<210> 833
 <211> 426
 <212> DNA
 <213> Homo sapiens

<400> 833
 gccataattt ctttcttcat tggatttggg ctaagatttg gagcaaaatg gaactttgca 60
 aatgcatatg ataatcatgt ttttgtggct ggaagattaa tttactgtct taacataata 120
 ttttgggtatg tgcgtttgct agattttcta gctgtaaatc aacaggcagg accttatgta 180
 atgatgattg gaaaaatggt ggccaatatg ttctacattg tagtgattat ggctcttgta 240
 ttacttagtt ttggtgttcc cagaaaggca atactttatc ctcatgaagc accatcttgg 300
 actcttgcta aagatatagt ttttcaccca tactggatga tttttgggtg agtttatgca 360
 tacgaaattg atgtgtgtgc aaatgattct gttatccctc aaatctgtgg tccgtcgacg 420
 cggccg 426

<210> 834
 <211> 445
 <212> DNA
 <213> Homo sapiens

```

<400> 834
aagcgcgcta gtagcagctc tggcagaagc aacgggtggct tcgagggatg gcggcggctg 60
caacaggacc tgcagcatcc cagaggaact gactaagact ttggaacaga aaccagatga 120
tgcacaatat tatcgtcaaa gagcttattg tcacattcct cttgggaatt actgtggtgc 180
agatgctaata ttcaagtact ggattaaaag gtgtcgaagc tcagaatggc tcggaatctg 240
aggtgtttgt ggggaagtat gagaccctcg tgttttactg gccctcgtcg ctgtgccttg 300
ccttcctgct gggcgcgttc ctgcatatgt ttgtcaaggc tctgaggggtg cacctcggct 360
gggagctcca ggtggaagaa aaatctgtcc tggaagtgcg ccagggagag caggtcaagc 420
agctcctgag gataccccgc cctca 445

```

```

<210> 835
<211> 487
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(487)
<223> n = a,t,c or g

```

```

<400> 835
tttagatgat cccctctgaa aatgatagct gccaanccnc cnaantnngg gtgaccacag 60
cgtgcgggat acaggcctag gctatggtaa ttgtaagcgg aagtgaataa aatattttat 120
ttgtgtgtgc atttatttaa caaacattaa ttatctcctt gattaataaaa gcactgttcc 180
tgccctcaag tagttcatgg tgggctagtc caagaacaat taaatatagt atgactatac 240
atttatgtag taatctaatt tgtcatttct tgcagagaat gggaacaatt ctcttttgcc 300
caaatatgca acctcaccaa aacctaacaa cagttatatg ttcaaaaggg aacctcctga 360
gggctgtgaa agggctcaag tctttgagga atgctcgtaa gtatcccttc caccatccgc 420
ccnngngnga acccccctaat ggggggcaaa caaggnnggg gggggcgcggt tttaaacaac 480
ccacgan 487

```

```

<210> 836
<211> 611
<212> DNA
<213> Homo sapiens

```

```

<400> 836
tgatgctgcc tgctgggccc ggggggctgt cttccactac ttctgctct gtgccttcac 60
ctggatgggc cttgaagcct tccacctcta cctgctcgct gtcagggtct tcaacacctc 120
cttcgggcac tacttctctga agctgagcct ggtgggctgg ggccctgccg ccctgatggt 180
catcggcact gggagtgcca acagctacgg cctctacacc atccgtgata gggagaaccg 240
cacctctctg gagctatgct ggttcctgta agggacaacc atgtacgcc tctatatcac 300
cgtccaeggc tacttctctc tcaccttctt ctttggcatg gtggctcctg ccctggtggt 360
ctggaagatc ttcaacctgt ccctgtctac agcgggtcaag gagcggggga agaaccggaa 420
gaagggtgct accctgctgg gcctctcgag cctgggtgggt gtgacatggg ggttggccat 480
cttcaacctg ttgggctctt ccacctcta catctttgca cttttcaact ccttgcaagg 540
tgtcttctac tgctgctggt tcacctcct ttacctcca agtcagagca ccacagctct 600
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ctccgcgggc gggaccttg gaaatcgagt ccacctcag cggcagcgtt tcagcaacag 11700
cacctcacg ccgcgcacg aagtgcgcgc gcagccgttg gaagctacga accctgggaa 11760
cccgagctca gaggtatcc ctgatcctct tgcgc 11795

```

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<210> 839
<211> 498
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(498)
<223> n = a,t,c or g

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<400> 839
acgtctccta atgaggactg agtgacntgc cacgaggacg aaagaaaatc acttataaga      60
tgaacctctg tgaagacag agatgtctct tgttttgttt tcagcagaag ctgacctctgt    120
ctcatttttt cctgctacag gttcctcagt ggtgtgctga atattgtctt tocatccact    180
accagcacgg gggcgtgata tgcacacagg tccacaagca gactgtggtc cagctcgccc    240
tgcggggtggc ggatgaaatg gatgttaaca ttggtcatga ggttggctac gtgatccctt    300
tcgagaactg ctgtaccaac gaaacaatcc tgaggttggt ttgtggggtt cagtccgctc    360
cctgctgatg attcttggct taggttctac aattctgaag gagcattatt ctggcattct    420
acctgttaag catctatgct gtgcagtagc aactggtctc tgtcatcagc cagccagcaa    480
cagttgcttt cccacact

```

<210> 840

<211> 858

<212> DNA

<213> Homo sapiens

```

<400> 840
ctegaccgcg ctgcaggaat tgggcacgag ccggaatccg cgcgcagccc ggatcgttta      60
aatgagagtt tgcagaagat gaaaggggag tcttgcatte agcaatttgc cctgtattta    120
atgagccagc cacttctgtg tttccctccc tatgacatag ccttcagct caccctacaa    180
ttgccacatg aaaactttct tcatgaaacc cacagggtgc aagttctctc ctgttgccct    240
gagtgcacac tcccaggccc tctgtatgag tgacacttca gtctgccatg gaacctggcc    300
ctgctctggc ctggtcctct ctcctgagcc tgctggcgga ttgtctgaaa gctgctcagt    360
cccagacctt cacagtgaat gacattatct acctccatcc ttcaaccaca ccatatcctg    420
gtggattttaa atgtttcacc tgtgaaaagg cagcagacaa ttatgagtgc aaccgatggg    480
ctccagacat ctactgccct cgagagacca gatactgcta cactcagcac acaatggaag    540
tcacaggaaa cagtatctca gtcaccaaac gctgtgtccc actggaagag tgcttatcca    600
ctggctgcag agactccgag catgaaggcc acaaggctct ggcaacagag caagtgacca    660
gtactacata gccagctgcc ttctcttcag acatctgcca gtactcatga gcagattctt    720
actcccccgt gaaggctgtc ttttgattgt ctttatgctc tgtgaaaaga cgcttccttt    780
cctgtttact ctaaaagaat acacatttat accagagcat aggacaactg atataaattg    840
tgtaaacaca catgaaga

```

<210> 841

<211> 459

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(459)

<223> n = a,t,c or g

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<400> 841
nagcggttnn nnnnaactga cttcctagca tttngcgngg cattcacaaa agaatatgaa      60
ggaaatgtga cttggaagat caaattgagg aatgcaatac acctttcaag cttgactgta    120
actactctag caaacctcat accctttact ctgagcctaa tatgttttct gctgttaatc    180
tgttctcttt gtaaaccatct caagaagatg cggctccata gcaaaggatc tcaagatccc    240
agcaccaagg tccatataaa agctttgcaa actgtgacct ccttccatcat gttatttgcc    300
atttactttc tgtgtataat cacatcaact tggaaatctta ggacacagca gagcaaacctt    360
gtactcctgc tttgccaac tgttgcaatc atgtatcctt cattccactc attcatcctg    420
attatgggaa gtaggaagct aaaacagacc tttctttca

```

<210> 842
 <211> 424
 <212> DNA
 <213> Homo sapiens

<400> 842
 tttcgtccgg aagtgcggat cccagcggcg gccgtgtagc tgagcaggcc tggggccttg 60
 ttctatgtcc ctgtggctat gtttccagtg tcctctgggt gtttccaaga gcaacaagaa 120
 acgaataaat ctctgttgaa gagataccat ttgacatttt agagatggct gcatgcaaac 180
 tcttaaaaca tttgaatgga ttttccctct tgttgcccag gctggagtgc aatgggtgtga 240
 tctcggttca ctgcaacccc ctgcctcccc gggtcaagcg attctcctgc cccagcctcc 300
 tgagtagctg ggattagagg catgtgccac catgccagc taattttgtg tttttagtag 360
 agacgggggt tttccttgta ggtcaggctg gccctgaact cctgacctca ggtgatccac 420
 ctgc 424

<210> 843
 <211> 697
 <212> DNA
 <213> Homo sapiens

<400> 843
 ggcacgagat ttaatgacat taaaagaaaa ccataaaca gctgtgcac agagttccta 60
 catgaaaacc aaatgtaaac caaatattac cttcttcaac accatcatct gtttcttct 120
 gacttttctc ttctgcatct atatcgatc gctcctctgt actgttccga agaaccagc 180
 acaggcggta cagctgaaca gggaccatac aaaagtgcac tagtaatagg caaatgtttg 240
 caataatata atagaatggt acctttgttt atcgtctggt gtttttaaaa aatcaaacca 300
 tacaggagaa tatagatcac aaagaaaagg cctcctacca cactcactca tcaaaacaca 360
 ctaatcatth taaatthttt tctgttttta attctttctg ggtgctatth agaacttcaa 420
 atgatatact taaaaatacc tacttctgga tttgtaatth cagcaaagtt gaagatttag 480
 ctaacctaca ctatacccca gcttcaactca ttgtccttaa catccaacag ttattagcca 540
 catcatgatt tcttctagtt tatctaattg ttgcttttat aactttcaaa ctatcttct 600
 aaaatctatt tctggaacca tcacatttgg ctgggatcta agtaccaatg gaattccaat 660
 tgcaattaag aacctttaac ccacttcctt tttctta 697

<210> 844
 <211> 698
 <212> DNA
 <213> Homo sapiens

<400> 844
 tttcgtgtca cggctgtagt tagggtcaag gtggtagtta ggatcatggc ttaggttagg 60
 gtcattggtg tagttagggt caccgctgta gttagggtca tgggtgtagt tagggtcgtg 120
 gtggttaggg tcatggtggt agttaggatc accgctgtac ttagggtcat ggtggtagtt 180
 aggatcatgg ctgtaattag ggtcatgggt gtagttaggg tcaccgctat agttggggtc 240
 atggtggtaa ttaggggtcac agcgatagtt agcatcatgg tggtagttag ggtcatgggt 300
 gtatttaggg tcatggtggt agctaggccc atggtggtag ttaggggtcat ggctgtagtt 360
 agagtcattg cggatagtgc gctcagggtc atatgttcgt cgtcgtgaa cgttacgttt 420
 tcgcttgaat agtcaagccc tgcctcgtct tttctttttt tcaactccaca aagaatcgtc 480
 ctactcgaa tgcttttttc ccgtgcttaa ggtggcacac catccctggc caacatctct 540


```

tttggttatg taactcttag tcgtccttgc atacacctcc cccccgcggg ggtgttacct 600
cccagagttgc gagagcaatt ctaaactagc cgtttttagcg taccaccttc actgaacctg 660
ttttcccgac aacctctctt cacggcctgg ggaggggcg 698

```

```

<210> 845
<211> 627
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(627)
<223> n = a,t,c or g

```

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<400> 845
tttcgtgcag agatgagctg ttttggactt ctccctggggg gcttaactcc aagggttctg 60
agtacagagg aacagctgcc ccctgggttc ccttccatcg acatggggcc tcagctgaag 120
gtggtggaga aggcacgcac agccaccatg ctatgtgccg caggcggaaa tccagacctt 180
gagatttctt gggtcaagga ctcccttccg gtagacctcg ccacgagcaa cggccgcctc 240
aagcagctgc gttcaggtga gcagaggcca ggggtcaaag ggccatgcag acctcagaac 300
aagcgtcttg tcagatccca gcacagccta ctcccttggg cctggggcacc tccagggctg 360
agcggagggt acctggtggg gtgggctggg tcttactgca ggtgtgcctg gctcagggaa 420
gagagctcgt ggttggtctg gccgttacct tcttcggatt gtcagactcc agactttggg 480
ccagttctgc cctcccagc acatgtgatg tgccagtgtg gtggactctt caaggagct 540
ctatggatgt taacctctct ccttccctgt ancctggcct gagacaggag aatggatgat 600
gcctttaatc agagctggtt tgactta 627

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```

<210> 846
<211> 635
<212> DNA
<213> Homo sapiens

```

```

<400> 846
tttcgtttca agtgctcttg cccaccaggc actcggggcc tactctgtga agagaacatt 60
gatgactgtg ccgggggtcc ccattgcctt aatgggtggtc agtgcattga taggattgga 120
ggctacagtt gtcgctgctt gcctggcttt gctggggagc gttgtgaggg agacatcaac 180
gagtgcctct ccaaccctcg cagctctgag ggcagcctgg actgtataca gctcaccaat 240
gactacctgt gtgtttgccc tagtgccctt actggccggc actgtgaaac cttcgtcgat 300
gtgtgtcccc agatgcctg cctgaatgga gggacttgtg ctgtggccag taacatgcct 360
gatggtttca tttgccgttg tccccggga ttttccgggg caagggtgca gagcagctgt 420
ggacaagtga aatgtaggaa gggggagcag tgtgtgcaca ccgcctctgg accccgctgc 480
ttctgcccc a gtccccgga ctgcgagtca ggtgtgcca gtagccctg ccagcacggg 540
ggcagctgcc accctcagcg ccagcctcct tattactcct gccagtgtgc cccaccattc 600
tcgggtagcc gctgtgaact ctcaactcac ccacc 635

```

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<210> 847
<211> 1100
<212> DNA
<213> Homo sapiens

```

<400> 847

gcaatttgggt	gctgctcctg	cccctgggtg	ctgagcaggc	ctggtgctgt	ctcccgtgga	60
cctgggtcagg	ccttacctct	tgatgacaaa	ctggatgctg	ttgctggcct	ccagaatctt	120
ccagagcttg	gcgatccga	agcagttggg	tctgcggagg	gagatgcctt	cgggcagccc	180
caccacaaac	agctcctccg	ggtgcatcag	aaacttggag	tacagcacct	tgatgggttc	240
cgagatgcca	atggccttgg	ctgcagagac	atggctgctg	taagtccagc	cgggtgccaca	300
gggccaggaa	tctcaacccc	tgtgtcccat	gcctgtgtag	agggcaaagc	tgccctgtcct	360
tttgaggggc	ttcctgggag	gtgagccagg	cgtgagccac	cttgccctgc	ctatattact	420
tatttgctta	tgcttatctc	tccacacgag	gatgtgtacc	ccaggagggtg	gggacatctg	480
tttggtccac	tgctttttcc	ccagccctt	gcacaggacc	tattacacag	taggtgctca	540
ataaatatatt	gttgaggcgg	ggtgcatttg	ctcacgcctg	taatcccagc	tctttgtgag	600
gccagggtag	gaggatcatt	tgaggtcagg	agtttgagac	ctgggggggc	atcatgggga	660
agccccgtct	ctactcaaaa	cgcccaaaca	attggcccag	cgttgtgggt	ggcctcctct	720
ggtcgccacc	tacttcagag	gtctgagcag	cataactggg	ttcgcccat	atgccttagg	780
tatctaggac	tcttagatcg	cacaattgac	ttccggcctt	gccgaatgga	agctgtctcc	840
ctttctataa	atctacgaac	ttgggcgatt	atgagtccca	tgctgctctt	agacttccgg	900
acgtcgtgga	tgcccttaac	cggcttcctc	ggtctttcac	gctcaaggcc	ttagcccttc	960
tgtatctcct	cttgtaacct	catggcgccc	gtacgtgttg	ccttcgatgc	gcacgactcg	1020
ccggaataga	ggacgtctct	ccttgctctc	tcgactcttc	gaagactgtc	aaaccctcg	1080
caatactcgc	tggtgtatcc					1100

<210> 848
 <211> 685
 <212> DNA
 <213> Homo sapiens

<400> 848

caacaacaaa	ccagaagagg	gcttaaagga	acttacaaaa	gctgcacaca	ggaatggaat	60
gaagaatgct	gaagacatcc	taaccatgga	ggttttgaaa	tccaccatga	agcaagaact	120
ggaggcagca	cagaaaaagc	attctctttg	tgaattgctc	cgcataccca	acatatgtaa	180
aagaatctgt	ttcctgtcct	ttgtgagatt	tgcaagtacc	atcccttttt	ggggccttac	240
tttgacctc	cagcatctgg	gaaacaatgt	tttctgttg	cagactctct	ttgggtgcagt	300
cacctcctg	gccaatgtg	ttgcacottg	ggcaactgaat	cacatgagcc	gtcgactaag	360
ccagatgctt	ctcatgttcc	tactggcaac	ctgccttctg	gccatcatat	ttgtgcctca	420
agaaatgcag	acccctgcgtg	tggttttggc	aaccctgggt	gtggggagctg	cttctcttgg	480
cattacctgt	tctactgccc	aagaaaatga	actaatcct	tccataatca	ggggaagagc	540
tactggaatc	actggaaaat	ttgctaata	tgggggagcc	ctggcttccc	tcgtgatgat	600
cctaagcata	tattctcgac	ccctgccctg	gatcatctat	ggagtctttg	ccatcctctc	660
tggccttggt	gtcctcctcc	ttccg				685

<210> 849
 <211> 413
 <212> DNA
 <213> Homo sapiens

<400> 849

gatttttaaat	aatgattcca	cctgctatat	tttgggtttt	aattatcttc	ggatggacgc	60
togtctacgg	ttttgtatac	ttcacacgg	gagaaacgat	tatggacaag	ttactccgtg	120
tcctctactg	gattctcgtg	aagaccttct	tcagagagat	ttcgggtgtcg	caccaggagc	180
gtatccccaa	agataagccg	gtcatgctgg	tgtgtgctcc	gcatgccaac	cagtttgtgg	240
acggaatggg	catttcaacc	catctggacc	gcaagggtga	ctttgtgggt	gcggcctcga	300
gttttcgcaa	gtacaagggtg	gtgggtctct	tcatgaagct	gatggcgctc	atcatttcgg	360
gggagcgtca	ccaggacgtg	aaaaaagtgc	tgaccggaat	ggcgacggag	aag	413

<210> 850
 <211> 395
 <212> DNA
 <213> Homo sapiens

<400> 850
 aatggatggt ctatgtgaaa gctgagttcc ttgtttcttt ctcttgcccg tggctgactg 60
 cgtgtgctct attgatgtct tgttcctggg tcttgacact gaccatcttg tctgtgaaag 120
 gaggcactcc ggcgggcatg cttgatcaga agaaagggaa gtttgcttgg tttagtcact 180
 ccacagaaac ccatggtaat gttccctgt gctctgtgtg tgtaaatgag tgtgggtgca 240
 taccagactg aatgggaagg tgtctctctt gatggcttgt gccgcagtag ttctgtgtgt 300
 gtgcataatat gtgtatgtat atatgttgtg tgggtgtgtg tgtttgtgaa gggatggcaa 360
 cctgtccccc tcaaagccac tgccttatca tggct 395

<210> 851
 <211> 904
 <212> DNA
 <213> Homo sapiens

<400> 851
 cggcaaatgt agtgtattat gtgggagaaa atgtgggtcaa tccttccagc ccatcaccaa 60
 ataacagtgt tctcaccagt ggcgttggtg cagatgtggc caggatgtgg gagatagcca 120
 tccagcatgc ccttatgcc gtcattccca agggctcctc cgtgggtaca ggaaccaact 180
 tgcacagtga gtctgccagt tttctaacca gcccgaagct catcatgtgc ctaccccttg 240
 cttagtaaac atgtgccctg ccttcctaa gaacagaatg aagaaagact tcttggggat 300
 gacttagttt attgtagaat gtagggtgtc taaataaaaag ctgctgcaca tactaagatg 360
 tttagtttgt taaattatcc tattttatta tagctatttt atattaaaat ttaacaaatt 420
 caggtaaaca ctatgtatta ggcaattaca gacctctaga gctattgggt ataaaagaag 480
 aagtaatctg gccgggctca gtggctcaca cctctaaacc cagctcttag ggaggccaag 540
 gtagggtggag gacttgagcc aagaggtcta gtccagcctg ggcaacatgg ggaaccctg 600
 tctctacaaa aaatacaaaa attagccagg catagtgtca tgcgcctgtg gtcccagcta 660
 ctctggaggc tgaagcagga aaattgcttg agcttaagaa gcataagttg cagtggggcc 720
 aagatcaagc ccactggatt tctgccttgg ccaagaaaag aagagggagg agggggaaga 780
 agggaggagg aaggaaattt aaccagcttt cagctttgaa tgggaatggc ccgagatgaa 840
 aaagtaacgg cgacaggggc attgacgagg gtccggggat gggcctgcaa cattatggta 900
 gcc 904

<210> 852
 <211> 592
 <212> DNA
 <213> Homo sapiens

<400> 852
 cgacccacgc gtgcgggaag ctccgcagga tgggggagaa gatggcggaa gaggagaggt 60
 tccccaatat aactcatgag ggtttcaatg tcaccctcca caccacctg gttgtcacga 120
 cgaaactggg gctcccagcc cctggcaagc ccattcctcc cgtgcagaca ggggagcagg 180
 ccagcaaga ggagcagtcc agcgcatga ccattttctt cagcctcctt gtccatgcta 240
 tctgcatcat attggtgcat ttactgatcc gatacagatt acatttcttg ccagagagtg 300
 ttgctgttgt ttcttttagt attctcatgg gagcagttat aaaaattata gagtttaaaa 360

aactggcgaa	ttggaaggaa	gaagaaatgt	ttcgtccaaa	catgtttttc	ctcctcctgc	420
ttccccctat	tatctttgag	tctggatatt	cattacacaa	gggtaacttc	tttcaaaata	480
ttggttccat	cacctgtttt	gctgtttttg	gaacggcaat	ctccgctttt	gtagtaggtg	540
gaggaattta	ttttctgggt	caggctcacg	taatctctaa	actcaacatg	ac	592

<210> 853
 <211> 436
 <212> DNA
 <213> Homo sapiens

<400> 853						
cccaggcg	cttttaacca	gcattctggg	tgaccaatct	aagtagacag	ggtcaggaca	60
acactgatgt	gtatacagat	gctgtttccc	tgctgtttct	ttctaagtat	gaatcccggg	120
cccctttgca	gacccagtag	gtgaatccaa	ttacgtagag	caggggactg	tggagctgtg	180
ttgtgagcag	cacccagggt	atgccccatg	gcagcatgtc	ccacattcct	tccatctttt	240
aaaaaaaaatt	tttctcgggt	gcagtctttg	tctgtcgcct	aggctggggg	acagtgggtg	300
aatctcagct	caccgcagcc	tcaacctccc	gggttcaagc	aatcctccca	ccttggcctc	360
ccaaagccaa	agattgcagg	tgtgagtcct	cggctcggcg	gtgggtcgac	ccggaattcc	420
ggccggacga	cgtcgt					436

<210> 854
 <211> 266
 <212> DNA
 <213> Homo sapiens

<400> 854						
agaaactgcc	tctctggatg	gtgactataa	cctatagcct	tgcccaatat	gactcaggat	60
ttggtactga	ctgtgccttt	catgggatgc	ttacttatcc	tggtcgatgg	cctaaagccc	120
aaccgtccag	cttatatcca	gacagggctc	caagccaccc	aggctggagt	gcagtggcac	180
aattatggct	cactgtagcc	tcaccttcc	gggatcaagc	aatcttcttt	cttcagcctc	240
cagaggagct	gggaccacag	atcctt				266

<210> 855
 <211> 420
 <212> DNA
 <213> Homo sapiens

<400> 855						
agcctgcagg	cccagctcgc	ccaggcagag	cagcggggcc	agagcctcca	aggggctgca	60
caccaggagc	tcaacaccct	caagttccag	ctgagtgtct	aaatcatgga	ctaccagagc	120
agacttaaga	atgctggtga	agagtgcag	agcctcaggg	gccagcttga	ggagcaaggc	180
cggcagctgc	aggctgctga	ggaagctgtg	gagaagctga	aggccaccca	agcagacatg	240
ggagagaagt	tgagctgcac	tagcaaccat	cttgccagag	gccaggcggc	catgctgagg	300
aaggacaagg	agggggctgc	cctgcgtgaa	gaccaagaaa	ggaccacagaa	ggaactcgaa	360
aaagccacgt	gtattgcgga	cgaaatcgtc	gaccggggaa	gtccggtccg	aatgctgtca	420

<210> 856
 <211> 412

<212> DNA
 <213> Homo sapiens

<400> 856
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 tgcaagacac tgggtgcattg cagggtgtgtt tccgcagaag ttgatggtg acagtgccta 120
 cgtgggggatg agtgacggaa acccagagct cctgtcaacc agccagacct acaacggcca 180
 gagcgagaac aacgaagact atgagatccc cccgataaca cctcccaacc tcccggagcc 240
 atccctcctg cacctggggg accacgaagc cagctaccac tcgctgtgcc acggcctcac 300
 ccccaacggt ctgctccctg cctactccta tcaggccatg gacctcccag ccatcatggt 360
 gtccaacatg ctagcacagg acagccacct gctgtcgggc cagctgcca cg 412

<210> 857
 <211> 403
 <212> DNA
 <213> Homo sapiens

<400> 857
 cggctccggcg caaggagggc ggctgggtgt ggaaaaaggc ctgggcgagc tgtgcctgca 60
 gcccttggtt gggttgggaa ggctgggctc ccaggctggt ggtagtgggt ggggtgatgt 120
 tctcatgaa gccccactc cgtccactac tgcctgacac ccacgaagcg agcagtttcc 180
 ggagctctcc gatgtagggg cagcaggtgt agagcagctg ctggtccacc acaggcgcct 240
 tgtccaagcc atgctctggg gctactgtgt ccacctcaa ggcatatgag ggacctctt 300
 ccagaaagaa caagtcctca gggactgtgg gaatctggaa aagccagtcc agggcagcaa 360
 gaagcagcag cttgttcagg aaacacatct tccctcact ctc 403

<210> 858
 <211> 439
 <212> DNA
 <213> Homo sapiens

<400> 858
 tgagggtggc gcagggggccc cggccagccc ggggctgcag cagtgcggac agctccagaa 60
 gctcatcggc atctccattg gcagcctgcg cgggctgggc accaagtgcg ctgtgtccaa 120
 cgacctcacc gagcaggaga tacggacctt ggagcattgt cccaattcct tcttctaata 180
 aagaaatacg cttagttgat gatgcgtttg gaaaaatttg tcacatggtc agtgatggct 240
 cttgggtggt tcgtgttcag gcagcaaaac tgttgggctc tatggagcaa gtcagtcttc 300
 atttcttgga gcagaccctt gacaagaagc atgtcagatc tgaggaggaa acgtactgca 360
 catgagcgtg ccaaggaact ttacagttcg ggggagtttt ccagtggcag aaagtgggga 420
 gatgatgctc ccaaggaag 439

<210> 859
 <211> 985
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(985)
 <223> n = a,t,c or g

<400> 859
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 tctgcacacg ggcacgccc ggcacgttgg tgtggctgta cgggaccatc agatggccag 180
 cactgggggg accaaggtgg tggccatggg tgtggccccc tgggggtgtgg tccggaatag 240
 agacaccctc atcaacccca agggctcgtt cctgcgagg taccggtggc gcggtgacc 300
 ggaggacggg gtccagtttc cctggacta caactactcg gccttcttcc tgggtggacga 360
 cggcacacac ggctgcctgg gggcgagaa ccgcttccgc ttgcccctgg agtcctacat 420
 ctacacagca aacacggccg tggcagggac tgggaattgac atccctggcc tgctcctcct 480
 gaaagaatgt gatgagaaga tggtgacgcg aatacacaa gccagccagg ctacagctccc 540
 atgtcttctt tatgattgca ttaaggggga gctacggact tgcctagcgg gcaccccttg 600
 gaataccctc ttgcccccg gaacgggtgg tttccagcct acgccccgaa ccccgagaat 660
 gcatccacgc gcctcgtttt gctgaattga ngatccttgg acgtccttgc atcccacatc 720
 gtggcgaaat tatttatcta cccccccc cgggtgggag taattgcata ctccatccc 780
 tattgcctcg ttttggagga gttggtgact ctacttcta tcggtaatag gacattaccg 840
 tatccgacct tatgactcgg tccccgatc aacaatcgac tagtaccggc cgcggccacc 900
 taactcctta taacacttct cttaccggca cctccgtcct tggtagtaaa ctccctggcg 960
 tgtatctgtg tgctactgct aggcc 985

<210> 860
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 860
 ctgcagaacc gagaggattc ttctgaaggc atcagaaaga agctgggtgga agctgaggag 60
 ctggaagaga aacatcgga ggcccaagtc tcagcccagc acctagaagt gcacctgaaa 120
 cagaaagagc agcactatga ggaaaagatt aaagtgttg acaatcagat aaagaaagac 180
 ctggctgaca aggagacact ggagaacatg atgcagagac acgaggagga ggcccatgag 240
 aagggcaaaa ttctcagcga acagaaggcg atgatcaatg ctatggattc caagatcaga 300
 tccttggaac agaggattgt ggaactgtct gaagccaata aacttgcagc aaatagcagt 360
 ctttttacc aaaggaacat gaaggcccaa tgtatt 396

<210> 861
 <211> 686
 <212> DNA
 <213> Homo sapiens

<400> 861
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 ccctggctgc tcacgcccgt gaggaccct cggatctgct ccagcacgtg aaattccagt 120
 ccagcaactt tgaacacatc ctgacgtggg acagcgggac agagggcacc ccagacacgg 180
 tctacagcat cgagtataag acgtacggag agagggactg ggtggcacaag aagggctgtc 240
 agcggatcac ccggaagtcc tgcaacctga cgggtggagac gggcaacctc acggagctct 300
 actatgccag ggtcacgcgt gtcagtgcgg gaggcgggtc agccaccaag atgactgaca 360
 ggttcagctc tctgcagcac actaccctca agccacctga tgtgacctgt atctccaaag 420
 tgagatcgat tcagatgatt gtcatccta cccccacgcc aatccgtgca ggcgatggcc 480
 accggctaac cctggaagac atcttccatg acctgttcta ccacttagag ctccaggcca 540
 accgcacct ccaaatgggt agtgtatgtt gcacctgggt ctttctctgc ctagggaagg 600
 tcttccctcc caattagatc tgagttgctt taagaaaaaa aggggacatg ttatgtaaat 660
 tagcatttcc cacaacatgt cccttg 686

<210> 862
 <211> 383
 <212> DNA
 <213> Homo sapiens

<400> 862
 cagagagttc aagcccacac tccctgggcg tgtctggctg gtgtcacctt ttggagccaa 60
 cccctgggtgg tggagtgtgg cagctgccct gccctgccctg ctgctgtcta tctcatctt 120
 catggaccaa cagatcacag cagtcacctt caaccgcatg gaatacagac tgcagaaggg 180
 agctggcttc cacctggacc tcttctgtgt ggctgtgctg atgctactca catcagcgt 240
 tggactgcct tggatatgtct cagccactgt catctccctg gctcacatgg acagtcttcg 300
 gagagagagc agagcctgtg ccccgggga ggcgcccaac ttcctgggta tcagggaaaca 360
 gaggtgaca ggctgggtg tgt 383

<210> 863
 <211> 673
 <212> DNA
 <213> Homo sapiens

<400> 863
 caaccccaag accaagaagc acctgggcat tgccaagggtg gtctttgcca cggtcggggg 60
 agccaaggat gccgttcagc acttgcacag cacttccgtc atgggcaaca ttatccacgt 120
 ggagctggac accaaagggtg agcctggcag gggaggagcg tggggagacc tgtcagcccg 180
 accctttccc tccccaccct tccctgcagcg tggggaggac ccccccctac tcttcttgg 240
 gatccccccc cacaacctta tttcttagcc ccctcctgag ggtagagtcg cgtggagcta 300
 aatgtgttgt ctgttgctag gagacagtct gtaatttacc aaatgtgccg gtccttggcc 360
 accgcacccc tagggaccac ccggaggctt cccaccgct gacacccccg cgggccccct 420
 ctctgagccc tgggtggcttg ggttttagaca gtccccagtg ttgcctgtgt taggggagga 480
 gacagagttt gtttacttgt gggggactga ggaagtgcc ctaggatgcc ttgaaatata 540
 tcaagagaag gtcgtgaaaac tgaaaagaga gtcccttaag gatccagggt gtccccccac 600
 ctcttgcgtg acccttcccc tctggaagtg gcagccaatc tggggcccag gaatgttgtt 660
 tcattgataa ggg 673

<210> 864
 <211> 435
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(435)
 <223> n = a,t,c or g

<400> 864
 gggaaatgtg tgggagccct gagcgtttgt gtgtgcgctg cgctcgtgtg tgcgctgtgt 60
 tcatgcgtgc gctgtgtgtt gtgtgtgtat atctgcggag acgcataaag tatgagcgt 120
 ttttaggatg ggaattgaga tgtaagattt gggggtgagg gccnccctga cccataggcc 180
 tgacatcttc atcctatgga ccctagagtc tggccactcc aggaacctga cctgctctgt 240
 gccccgcccc tgtaagcata gaacaccccc catgatctcc tggagtgggg cctccgagac 300

ctccccgggc	cccactactg	cccgttcctc	agtgtctacc	cttaccceaa	agccccagga	360
nnaccggnc	agccctcacc	tgtnaggtg	accttgctg	gggacagggt	gtgaccacg	420
accnatacct	ntncg					435

<210> 865
 <211> 2161
 <212> DNA
 <213> Homo sapiens

<400> 865						
ggcggcgatg	tgcctcgtgc	tgctaagcct	ggccgcgctg	tgcaggagcg	ccgtacccccg	60
agagccgacc	gttcaatgtg	gctctgaaac	tgggccatct	ccagagtggg	tgctacaaca	120
tgatctaato	ccgggagact	tgagggacct	ccgagtagaa	cctgttacia	ctagtgttgc	180
aacaggggac	tattcaattt	tgatgaatgt	aagctgggta	ctccgggcag	atgccagcat	240
ccgcttggtg	aaggccacca	agatttgtgt	gacggggcaa	agcaacttcc	agtcctacag	300
ctgtgtgagg	tgcaattaca	cagaggcctt	ccagactcag	accagaccct	ctgggtggtaa	360
atggacattt	tcctacatcg	gcttccctgt	agagctgaac	acagtctatt	tcattggggc	420
ccataatatt	cctaattgca	atatgaatga	agatggccct	tccatgtctg	tgaatttcac	480
ctcaccaggc	tgccctagacc	acataatgaa	atataaaaaa	aagtgtgtca	aggccgggag	540
cctgtgggat	ccgaacatca	ctgcttgtaa	gaagaatgag	gagacagtag	aagtgaactt	600
cacaaccact	cccttgggaa	acagatacat	ggctcttatt	caacacagca	ctatcatcgg	660
gttttctcag	gtgtttgagc	cacaccagaa	gaaacaaacg	cgagcttcag	tggtgattcc	720
agtgactggg	gatagtgaag	gtgctacggt	gcagctgact	ccatattttc	ctacttgttg	780
cagcgactgc	atccgacata	aaggaaacagt	tgtgctctgc	ccacaaacag	gcgtcccttt	840
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gctgggtggc	acatgggtgc	tggtggcagg	gatctatcta	atgtggaggc	acgaaaggat	960
caagaagact	tccttttcta	ccaccacact	actgcccccc	attaagggtc	ttgtgggtta	1020
cccatctgaa	atatgtttcc	atcacacaat	ttgttacttc	actgaatttc	ttcaaaacca	1080
ttgcagaagt	gaggtcatcc	ttgaaaagtg	gcagaaaaag	aaaatagcag	agatgggtcc	1140
agtgcagtgg	cttgccactc	aaaagaaggc	agcagacaaa	gtcgtcttcc	ttctttccaa	1200
tgacgtcaac	agtgtgtgcg	atggtacctg	tggcaagagc	gagggcagtc	ccagtgcaga	1260
ctctcaagac	ctcttccccc	ttgcctttta	ccttttctgc	agtgatctaa	gaagccagat	1320
tcactctcac	aaatacgtgg	tggtctactt	tagagagatt	gatacaaaaag	acgattacaa	1380
tgctctcagt	gtctgcccc	agtaccacct	catgaaggat	gccactgctt	tctgtgcaga	1440
acttctccat	gtcaagcagc	aggtgtcagc	aggaaaaaga	tcacaagcct	gccacgatgg	1500
ctgctgctcc	ttgtagccca	cccatgagaa	gcaagagacc	ttaaaaggct	cctatcccac	1560
caattacagg	gaaaaaacgt	gtgatgatcc	tgaagcttac	tatgcagcct	acaaacagcc	1620
ttagtaatta	aaacatttta	taccaataaa	attttcaa	attgctaact	aatgtagcat	1680
taactaacga	ttggaaaacta	catttacaac	ttcaaaagctg	ttttatacat	agaaatcaat	1740
tacagtttta	attgaaaact	ataaccattt	tgataatgca	acaataaagc	atcttcagcc	1800
aaacatctag	tcttccatag	accatgcatt	gcagtgtaac	cagaactgtt	tagctaatat	1860
tctatgttta	attaatgaat	actaactcta	agaacccttc	actgattcac	tcaatagcat	1920
cttaagtga	aaaccttcta	ttacatgcaa	aaaatcattg	tttttaagat	aacaaaagta	1980
gggaataaac	aagctgaacc	cacttttact	ggaccaaatg	atctattata	tgtgtaacca	2040
cttgatgat	ttggtatttg	cataagacct	tccctctaca	aactagattc	atatcttgat	2100
tcttgtagag	gtgcctttta	acatgaacaa	caaaataccc	acaaacttgt	ctacttttgc	2160
c						2161

<210> 866
 <211> 505
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(505)
 <223> n = a,t,c or g

<400> 866
 cataagcctt gggcanagna ccttgaaata aatgnngcca cccacgcgcc cgcggacgcg 60
 tgggggttga atattctact ttgttattta tatcatcata tccctccctgg ttgtggtgaa 120
 catgtacatt gcagtcatac tggagaattt tagtggtgcc actgaagaaa gtactgaacc 180
 tctgagtgag gatgactttg agatgttcta tgagggttgg gagaagtttg atcccgatgc 240
 gacccagttt atagagttct ctaaactctc tgattttgca gctgccctgg atcctcctct 300
 tctcatagca aaacccaaca aagtccagct cattgccatg gatctgcca tgggttagtg 360
 tgaccggatc cattgtcctg acatcttatt tgcttttaca aagcgtgttt tgggtgagag 420
 tggggagatg gattctcttc gttcacagat ggaagaaagg ttcattgtctg caaatccttc 480
 caaagtgtcc tatgaacca tcaca 505

<210> 867
 <211> 608
 <212> DNA
 <213> Homo sapiens

<400> 867
 ttcagttttt ggctctgggtg caccatgtgc ctgggttaat ttgggtgggt caatcccaaa 60
 gcagctctga aocccaaagc ggctcctctg aattcccagt ttcaagttcc actctgtccc 120
 tgctggggcat ctcgagatat gggaaacagg gctgttataa ttgccagaca gctgagttct 180
 gtacatacct tgatttgcaa ttttttttgg ctgctctca ggacaactgg gggagattta 240
 gattccttaa aatgcagtta tgaatctatt ggccctcaact ctatttctac ccatgaattc 300
 atttgtactt ggcaaagacg acttaatttc tcatttggtta tgtcatttaa acctctcttt 360
 agagcctctc ctcaactctta cctgttaata atcggaagtc agctacatga aacgttcaat 420
 ttgggttcca tctcctctga agaaaaatgc agttaaaaaaaa aaaataagag gtttggtccag 480
 ccgcagtgcc tcacacctgt aatcccagca ttttgaggagg ccgaggcagt cagatcacct 540
 gggggcgagg gttcggaac cggcctggcc caacacagga gaaacccgt cttatactaa 600
 acaatata 608

<210> 868
 <211> 772
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(772)
 <223> n = a,t,c or g

<400> 868
 tttcgtagcg caggcaggggt tccctgctgg ggcccggggt gccagccat getttgggca 60
 ctctggccaa ggtggctggc agacaagatg ctgccctcc tgggggcagt gctgcttcag 120
 aagagagaga agagggggcc totgtggagg cactggcggc gggaaacctc cccatactat 180
 gacctccagg tgaaggtgct gagggccaca aacatccggg gcacagacct gctgtccaaa 240
 gccgactgct atgtgcaact gtggctgcc acggcgtccc caagccctgc ccagactagg 300
 atagtggcca actgcagtga ccccgagtgg aatgagacct tccactacca gatccatggt 360
 gctgtgaaga acgtcctgga gctcaccctc tatgacaagg acatcctggg cagcgaccag 420
 ctctctctgc tccgtgttga cctgagaagc ctcaagtgtg gccaacctca caaacacacc 480

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ttcccactca accaccagga ttcacaagag ctgcaggtgg aatttggtct ggagaagagc 540
caggagcctg catctgaagt catcaccaac ggggttctgg gggctcacc ctggctgaga 600
atgaagggta tgattttggg agaggggaga gcccacggc aacagcacgg ccaatcttgg 660
gagggggggg tgggaccctc cccctctctc ccnngnanaa acaccggagg gaagatagtt 720
gggttttggg aagaaatggc gaatgggacc ggcgccccac cccgcccccc ct 772

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<210> 869
<211> 704
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(704)
<223> n = a,t,c or g

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```

<400> 869
tttcgtggca tgatgagcat gattaccagc ctgggccact ggctgctgca gggcttttcc 60
tgagccatgg tgccttctgc cgtcaaaggc cgaccctaac tgcctcctgc tggagtcgag 120
aaaaccagggt agactggaaa ggatgtgtct acagtaactg aaacacatca ctgctgtttg 180
ttacagtcaa tgatagggca gatctgagtt ccagagcacg gctcacagac ctttctctgc 240
atcagtctgt gccgaagtcn nnnnnnnnnc tttttcttt ttttgcacac attacatcac 300
ttcataattt accacctacg tagcatgact gtatatttgg aatcattttct tcacaagttt 360
tagaccatat taaaggaaca ctggcagaac cctgtttgat ttccctttcg tctgttccc 420
tacattgccc tcttgcccc cttaggaac tagatgagcg attagaactg gccagaggtc 480
cttgaggagaa caacacgcga acagaagcat tagtagcatt gtcctcccca gtctaact 540
tgtcggaccc ctgatgagca gacttccctg tggggtgttc atatcccat gccccgctca 600
gtgggcttca tgcctgagtc atatttgctt gctttcttt gaggtgggtg gcgccaaggt 660
tgtgacaaat gcccgagtc ctggagctcg ctgttacggg tttg 704

```

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<210> 870
<211> 389
<212> DNA
<213> Homo sapiens

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<400> 870
tttcgtgagg ctttgttctt ttgttctttg tgatagatct aattgctgct cactctttgg 60
gtctgtactg cgtttatgag ctgtgacact cgccgtgaag gtctgcagct tcactcctga 120
accagcgaga ggaggaaccc accagaagga ggaaaacgcg gaacacatct gaatatcaga 180
aggaacaaac tccagacacg ccgcctttaa gaactgtaac agtcaccgcg agggtcctgt 240
gtttcattct tgaagtaagt gagaccaaga acctgccaat ttcagacaca atggagagcg 300
ccagtcctgc tgcggggcca tacatctatt taatttcctc tcatcttccc cccggttccg 360
agaggaaggt gctttcacct gcactgttc 389

```

```

<210> 871
<211> 643
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature

```

<222> (1) ... (643)

<223> n = a, t, c or g

<400> 871

tttcgtggat	ggagccctcc	tcctgatcct	gtagtggtag	taagaatcac	cagcgcgggc	60
aaggagtacg	gacgggagtc	agaggcagag	cgaggggtgtg	tggaggggccg	gcgggggaccg	120
ccgggagcgc	gcggatgtcg	gtgttcctgg	ggccagggat	gccctctgca	tctttattag	180
taaatcttct	ttcagcttta	ctcctcctat	ttgtgtttgg	agaaacagaa	ataagattta	240
ctggacaaac	tgaatttggt	gttaatgaaa	caagtacaac	agttattcgt	cttatcattg	300
aaaggatagg	agagccagca	aatgttactg	caattgtatc	gctgtatgga	gaggacgctg	360
gtgacttttt	tgacacatat	gctgcagctt	ttatacctgc	cggagaaaaca	aacagaaacag	420
tgatcatagc	agtatgtgat	gatgacttac	cagagcctga	cgaacttttt	atttttcact	480
taacattaca	gaaaccttca	gcaaatgtga	agcttggatg	gccaaaggact	gttactgtga	540
caatattatc	aaatggacaa	atggcatttt	gggaatttat	tttcatttta	aatattggcc	600
ttccccctcc	aattccgcc	agtggaagnt	tgaaagcccc	cct		643

<210> 872

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (498)

<223> n = a, t, c or g

<400> 872

attccogtgt	cgacgatttc	gtagcgctg	agagggcggt	gggggtggcg	ngttcctgcg	60
cgcgggccgc	catggatgtg	gaggaggcgt	tccaggcggt	ggggggagatg	ggcatctacc	120
agatgtactt	gtgcttcctg	ctggccgtgc	tgctgcagct	ctacgtggcc	acggaggcca	180
tctcatttgc	actggttggg	gccacgccat	cctaccactg	ggacctggca	gagctcctgc	240
caaatcagag	ccacggtaac	cagtcagctg	gtgaagacca	ggcctttggg	gactggctcc	300
tgacagccaa	cggcagtgag	atccataagc	acgtgcattt	cagcagcagc	ttcacctcta	360
tcgcctcgga	gtgggttttta	attgccaaca	gatcctacaa	agtcagtgca	gcaagctcct	420
ttttcttcag	tggtgtattt	gttggagtta	tctcttttgg	tcagctttca	gatcgcttcg	480
gaaggaaaaa	agtctatc					498

<210> 873

<211> 404

<212> DNA

<213> Homo sapiens

<400> 873

tttcgtctgt	gagctgcggc	agctgagcag	aggcgggcggc	gcgggacctg	cagtcgccag	60
ggattccctc	caggtgacga	tgctctgggt	ctccggcgctc	ggggctctgg	ctgagcgcta	120
ctgcgcgcgc	tcgcctggga	ttacgtgctg	cgtcttctgt	ctactcaatt	gctcgggggt	180
ccccatgtct	ctggcttcct	ccttcttgac	aggttctgtt	gcaaaatgtg	aaaatgaagg	240
tgaagtcttc	cagattccat	ttatcacaga	caacccttgc	ataatgtgtg	tctgcttgaa	300
caaggaagtg	acatgtaaga	gagagaagtg	cccogtgctg	tcccagact	gtgccctggc	360
catcaagcag	aggggagcct	gttgtgaaca	gtgc aaagg	tgca		404

<210> 874
 <211> 435
 <212> DNA
 <213> Homo sapiens

<400> 874
 gaattcatcc gtcagtgtgg agtggccctc tgcctcgtgc tgggattctc catcctgtct 60
 gcatccatcg gcagctctgt ggtgaggac aggggtgattg gagccaaaag gttgcagcac 120
 ataagtggcc ttggctacag gatgtactgg ttcacaaact tcctatatga catgctcttt 180
 tacttggttt ccgtctgcct gtgtgttggc gttattgtcg ccttccagtt aacagctttt 240
 actttccgca agaacttggc agccacggcc ctctctgtgt cacttttcgg atatgcaact 300
 ctcccatgga tgtacctgat gtccagaatc ttttccagtt cggacgtggc tttcatttcc 360
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 ttgctagcca tcatc 435

<210> 875
 <211> 703
 <212> DNA
 <213> Homo sapiens

<400> 875
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 ccctcaactt ctcttcagc cataaatcag acatctggtc cctgggctgc atcattctgg 180
 acatgaccag ctgctccttc atggatggca cagaagccat gcctctgcgg aagtcctcc 240
 gccagagccc aggcagcctg aaggccgtcc tgaagacaat ggaggagaag cagatcccgg 300
 atgtggaaac cttcaggaat cttctgcctc tgatgtcca gatcgacccc tcggatcgaa 360
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 tctctccacc ctaatacaag cacagctagt tggctttgta acgcctcaaa gaactccatc 480
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 gtgctgccc gagtaatccc gaatgtacgg tggagtggac agactgaccc ccaggaggca 600
 caggaggcgt agccccagg acccagcaca cttttagggg tccagaaaaa agttttcatt 660
 caacataaaa aaaaaaaaaa tccataaagac aaaaaaaaaa aaa 703

<210> 876
 <211> 429
 <212> DNA
 <213> Homo sapiens

<400> 876
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 aaactgaaag atccccctaat ttgatgagtg agaggggtcga gcggaactgg agcacgggcg 120
 gctggctgct ggcactgtgc ctggcctggc tgtggaccca cctgaccttg gctgccctgc 180
 agcctccac tgccacagtg cttgtgcagc agggcacctg cgagggtgatt gcggctcacc 240
 gctgctgcaa ccggaaccgc atcgaggagc gctcccagac ggtgaaatgc tctgttttt 300
 ctggccaggt ggccggcacc acgcgggcaa agcctcctg cgtggacgac ctgctcttgg 360
 ctgcccactg tgctcgtaga gaccctagag ctgcactccg cctcctgctt ccacagcctc 420
 catgctcct 429

<210> 877
 <211> 1140
 <212> DNA
 <213> Homo sapiens

<400> 877
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 gggggcatgg gcccaggcct ccagtactag cctctctgat ctgcagagct ccaggacacc 180
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<210> 878
 <211> 1139
 <212> DNA
 <213> Homo sapiens

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 tgcgagctct gcaagtatga gttcatcatg gagaccaagc tgaagccact gagaaaatgg 180
 gagaagttgc agatgacgtc cagcgagcgc aggaagatca tgtgctcagt gacattccac 240
 gtcattgcc aacatgtgt ggtctggtcc ttgtatgtgc tcattgaccg tactgctgag 300
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<210> 879

<211> 478
 <212> DNA
 <213> Homo sapiens
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 <221> misc_feature
 <222> (1)...(478)
 <223> n = a,t,c or g

<400> 879
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 aatatttgcc caggccctcc caggcccagg cccatgccac ctgggcccgc gcatctgttt 180
 gaggatctgc caatgtgtc ttaactgagg acgaaggaag aacacctttc tatgagtctt 240
 gcaaagatta cctccttcag gccacaaata tttgagtga cactacgtgc caggcactgt 300
 gcagggtctg aggcataag acagaatgt atctatctgg gccttggacc ccatagggag 360
 aggggaccac tcagggtccat acttcctttg gacttggggc tttggccttg ggagggggcg 420
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<210> 880
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 880
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 ctgacactca cgaggcagta tatgcggatg atgggagtgc atccagtga ccatctctctg 180
 gcctgggttc tggagaacat ggctgtgttg accataagca gtgctactct ggccatcggt 240
 ctgaaaacaa gtggcatctt tgcacacagc aataccttta ttgttttctt ctttctcttg 300
 gattttggga tgtcagtcgt catgctgagc tacctcttga gtgcattttt cagccaagct 360
 aatacagcgg ccctttgtac cagcctggtg tacatgatca gctttctgcc ctacatagtt 420
 ctattgggtc tacataacca attaatgttt gttaatcaga catttctgtg ccttcttctg 480
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<210> 881
 <211> 918
 <212> DNA
 <213> Homo sapiens

<400> 881
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catactatgg	agccatgtac	atcagatgaa	tttttccaag	cccttaatca	tgccgagcaa	780
acatttaaaa	aaatggaaaa	ctatttgaga	cataaacagt	tgtgtgatgt	aatttttagtc	840
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<210> 882
 <211> 604
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1) ... (604)
 <223> n = a,t,c or g

<400> 882						
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tcactctaag	attgatccac	at'ttttactg	taagcagaaa	cttaggaccc	aagattataa	240
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tgtgtgtgga	gctggatgag	cacaacctgc	cccggttccc	cgagtggatc	accatcccc	540
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ttgg						604

<210> 883
 <211> 1206
 <212> DNA
 <213> Homo sapiens

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caaatgacaa	atgctacccc	acctccgcc	ggcagccaga	gccagggccg	aaggacggcg	1080
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<210> 884
 <211> 420
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(420)
 <223> n = a,t,c or g

<400> 884						
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cggcgcagca	gtattcgccc	aacgggcgta	tcggaaacca	ctgatctcgt	tccttgcggg	180
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cgaactatctc	aaagccttca	tcgacgtccc	aaccgttcca	gcggcgctcg	tccttctgct	300
cctgggtggga	cttctcaatg	ccagaggcat	caaggagtcc	atgcgcgcca	ncgtcgtcat	360
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<210> 885
 <211> 1696
 <212> DNA
 <213> Homo sapiens

<400> 885						
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<210> 886
 <211> 1410
 <212> DNA
 <213> Homo sapiens

<400> 886						
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<210> 887
 <211> 413
 <212> DNA
 <213> Homo sapiens

<400> 887						
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agataccagc	ttcgtataaa	ccatttcaaa	gatgtccttt	cagggtgtcac	gggaagtctc	360
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<210> 888
 <211> 887
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(887)
 <223> n = a,t,c or g

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ataggtcaag taagtaaata gagatttaaa aaattatgaa cacaaggaa gtaacagcct 180
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ttttgagttg gtctcaagta ttttggtttc gaatgtgaaa gatatgttag attttgaaag 300
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<210> 889
 <211> 1871
 <212> DNA
 <213> Homo sapiens

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<400> 889
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cctccccccc	gccagggtcgg	ggaggggtcc	caccactcaa	agtgcctcta	aagaaaccag	1320
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<210> 890
 <211> 379
 <212> DNA
 <213> Homo sapiens

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gacttgtctt	cggtagggac	agtcaagtca	ggcaaaaccg	tgaacttggc	tacagcaggc	180
acaatcaagc	cgggcacagc	catgaatctg	actacagttg	ggacaaccaa	gccagggatg	240
gtcatggatt	tgatagcctc	agaaccagac	aagctgggca	aagccatggc	tacaagaagc	300
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gtcaagccgg	acatgtatt					379

<210> 891
 <211> 397
 <212> DNA
 <213> Homo sapiens

<400> 891						
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ccatcctggc	catctatgoc	ggcgtcatca	agctcgcctt	cgaccccccg	gacatcccgg	180
tctgcctcct	ggggaaccgc	acgctgtcac	ggcgagctt	cgatgcctgc	gtcaaggcct	240
acggcatcca	caacaactca	gccacctccg	cgctctgggg	cctcttctgc	aacggctccc	300
agcccagcgc	cgctgtgtac	gagtacttca	tccagaacaa	cgtcaccgaa	attcagggca	360
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<210> 892
 <211> 398
 <212> DNA
 <213> Homo sapiens

<400> 892						
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tgaatacacc	tgggaggttg	gtgtgggctt	cgctcactcc	ccccagccta	actacatcca	180
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cctgccccca gctccggaaa gtggcagcac caacccatgg gttcagttct tttgttccac 300
ggagaacaga catgccctgc cctctttcac ctccctcctc aacaccggtg gtgcctatga 360
ccctgtggaa tacgggatcc cctacaacca cctgtatt 398

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<210> 893
<211> 397
<212> DNA
<213> Homo sapiens

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<400> 893
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ccctcgtggt gtttgcctgt ctgggcttca agccaacat catgaatgag aagtgtgtgg 360
tcgagaatgc tgagaaaatc ctagggtacc gtgtatt 397

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<210> 894
<211> 380
<212> DNA
<213> Homo sapiens

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<400> 894
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tctatttcta catgtggaag ttcgtgtctc ctctatgcat ggctgtgtc accacagcca 180
gcatcatcca gctgggggtc acgccccggg gctacagcgc ctggatcaag gaggaggctg 240
ccgagcgcta cctgtatttc cccaactggg ccatggcacc cctgatcacc ctcatcgctg 300
tggegcagct gccatccct gtggtgttcg tctcgggca cttccaccta atctgtgatg 360
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<210> 895
<211> 389
<212> DNA
<213> Homo sapiens

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<220>
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<223> n = a,t,c or g

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tcagcttgag agacctgata gagatgatgt ctatcggcac gctcctggcc tacaccttg 300
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agttcttctg tgaggagcac acgtgtagt 389

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<210> 896
 <211> 415
 <212> DNA
 <213> Homo sapiens

<400> 896
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 caaatggggc aaagatgggc ctctgatga tgattctagg ccaaattattc ctgaatggca 180
 accaagccaa ggaggctgag atttgggaaa tgctctggag gatgggggtg cagcgggaaa 240
 ggaggcttct catttttggg aacccaaaga gacttctgtc tgtggagttt gtatggcagc 300
 gttacttaga ctacaggcca gtaactgact gtaaacaggt ggagtatgag tttttctggg 360
 gcccaagatc ccacctagaa accaccaaga tgaaaattct gaagtccatg gcgaa 415

<210> 897
 <211> 428
 <212> DNA
 <213> Homo sapiens

<400> 897
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 agaaagagtt tggtgctcag cccaactgcc aacagttgct tgccaccctg tggatatgatg 180
 gcttccttgg atggcgccgg aaacactggg tagtcaagct tctaacctgc atgaccattg 240
 ggttcctggt tcccatgctg tctatagcct acctgatctc acccaggagc aaccttgggc 300
 tggttcacaa gaaacccttt atcaagttta tctgccacac agcatcctat ttgaccttcc 360
 tctctatgct tctcctggct tctcagcaca ttgtcaggac agaccttcac gtacaggggc 420
 cctgtatt 428

<210> 898
 <211> 444
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(444)
 <223> n = a,t,c or g

<400> 898
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 caatgccatg ctacagttgg gccccttctt atattggaca tttctggctg cctttgaagg 180
 gacagtgttc ttctttggga cttactttct ttttcagact gcatccctag aagaaaatgg 240
 aaaggatatac ggaaactgga cttttggaac cattgttttt acagtcttag tattcaactgt 300
 aaccotgaag cttgccttgg ataccgatt ctggacgtgg ataaatcact ttgtgatttg 360
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 tctcaagcaa cagagaatgg cgaa 444

<210> 899
 <211> 436
 <212> DNA
 <213> Homo sapiens

<400> 899
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 agcctttcaa ggtgaacaga atgatttcaa ctocagccaa ggtgggaaag acttttgcca 180
 ccaacatggg ctgtttgagc accaaaaaac ccataatggg gagaggcctt atgagttcag 240
 tgaatgtggg gaattgttta ggtacaactc caaccttatt aaatatcagc aaaatcatgc 300
 tggagaaagg ctttatgagg gcactgaata tggaaagacc tttattagaa agtccaacct 360
 agttcagcac cagaaaattc acagtgaagg ctttctttca aaaaggctcg accccattga 420
 acatcaggag tgtatt 436

<210> 900
 <211> 466
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(466)
 <223> n = a,t,c or g

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 ctgttggggc tccgagagga ctgggatgac cgctggatca acgatgtgga agacagctac 180
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 gccctggctg ctttcttctc ctactgccct ggaatgggtg ttgctcttaa gatgtatccc 420
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<210> 901
 <211> 412
 <212> DNA
 <213> Homo sapiens

<400> 901
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 tgatgtctta ggagcccoct ggaattggct gtacttcac cccctcctca tcattggagc 180
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 gctgaatggc taccgtgtct ggatagccaa agcagaggaa gtcatgctcg ctgaagaaaa 360
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<210> 902
 <211> 1334
 <212> DNA
 <213> Homo sapiens

<400> 902
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 gtattgcgca gcgatgcacg gccatcaagt accacttttc tcagcccatc cgcttgcgaa 180
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<210> 903
 <211> 701
 <212> DNA
 <213> Homo sapiens

<400> 903
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<210> 904
 <211> 546
 <212> DNA

<213> Homo sapiens

<400> 904
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<210> 905

<211> 2642

<212> DNA

<213> Homo sapiens

<400> 905
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<210> 906
<211> 2053
<212> DNA
<213> Homo sapiens

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1691

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 <211> 814
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <213> Homo sapiens

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 <213> Homo sapiens

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<213> Homo sapiens

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<211> 1327

<212> DNA

<213> Homo sapiens

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 <223> n = a,t,c or g

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 <211> 1463
 <212> DNA
 <213> Homo sapiens

<400> 919

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
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 <222> (1)...(1589)
 <223> n = a,t,c or g

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<210> 923
 <211> 1071
 <212> DNA
 <213> Homo sapiens

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<210> 926

<211> 2422

<212> DNA

<213> Homo sapiens

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<210> 927
<211> 415
<212> DNA
<213> Homo sapiens

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<220>
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<223> n = a,t,c or g

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<210> 928
<211> 1503
<212> DNA
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<220>
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<222> (1)...(1503)
<223> n = a,t,c or g

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<210> 929

<211> 834

<212> DNA

<213> Homo sapiens

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<210> 930

<211> 1434

<212> DNA

<213> Homo sapiens

<400> 930

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<210> 931

<211> 410

<212> DNA

<213> Homo sapiens

<400> 931

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<210> 932

<211> 2361

<212> DNA

<213> Homo sapiens

<400> 932

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 <212> DNA
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 <211> 1691
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
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 <212> DNA
 <213> Homo sapiens

<400> 941

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 <212> DNA
 <213> Homo sapiens

<400> 942

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<210> 943
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 <212> DNA
 <213> Homo sapiens

<400> 943						
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aaaatt						1026

<210> 944
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 <212> DNA
 <213> Homo sapiens

<400> 944

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<210> 945

<211> 2127

<212> DNA

<213> Homo sapiens

<400> 945

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 <211> 1759
 <212> DNA
 <213> Homo sapiens

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 cctggctgga aaaaaaaaa 1759

<210> 947
 <211> 1033
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (1033)
 <223> n = a,t,c or g

<400> 947
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<210> 948
 <211> 401
 <212> DNA
 <213> Homo sapiens

<400> 948	
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gcatgatcgg	ggccgcttct
tcaccatcct	ggggctgggc
agggcggtt	180
ctgggcttcc	atggctgggg
caggcgcgct	gcggaccctg
aggtatgaa	240
tggtggaacg	catgagctgc
tcttttagca	tgagcgctgc
cgcttcttca	ccatcctctg
300	
gctggctctg	tcggggccacg
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gggtggggca	gcccgtgtcc
360	
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g	401

<210> 949
 <211> 432
 <212> DNA
 <213> Homo sapiens

<400> 949	
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tgacgagact	gtacacggac
gactacgtgt	tcgcgtgggg
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aggccaccga	ggataagagg
atgggtggcac	aagcagcaca
240	
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actcggccac	acccagtccc
tcgcgcagcg	ccaccagggc
300	
ggcaaaggcc	aggatcacca
ggaggcctga	gaagtaggtc
atgttcctcc	caatgcactt
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aggaggacaa	gaagccgctg
aggtacatca	ccaggggaat
420	
ggtcgcgatg	aa
	432

<210> 950
 <211> 450
 <212> DNA
 <213> Homo sapiens

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<400> 950
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ggacaagtga aattctctga gagccattgg tcagtacaat gaatatgaaa ttcagtcctg      180
caaggtaatt gcctgagctt gtttccagtt atgtggtcac tgatacaaac actacagatt      240
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gctctttggg taaatcatgt attcaggcgg gcgtgggtggc tcttgccctgt aatcctagca      360
ctttgggagg ccgaggcagg cggatcacct gaggtcagga gttgaagacc agcctggcca      420
acatggtgaa acccatgtct actaaaatac      450

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<210> 951
<211> 1321
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(1321)
<223> n = a,t,c or g

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<400> 951
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tgacctceca ccaagtcttg caggtaggnc cttgtactcg gtcggaggty agggagagtg      180
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gaacatatgc accagtggcc tcggcccagg ccggctttcc cggttttatt cccgtaacct      1260
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a

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<210> 952
<211> 1729
<212> DNA
<213> Homo sapiens

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<400> 952
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gccgaccgcg	cgctgcgcgc	gctccoctcg	cgctccatcc	cgctcgccatt	caccacagag	1680
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<210> 953

<211> 1205

<212> DNA

<213> Homo sapiens

<400> 953

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 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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<210> 956
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<212> DNA
<213> Homo sapiens

<400> 956

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<212> DNA
<213> Homo sapiens

<400> 957

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<211> 476
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<210> 961

<211> 679

<212> DNA

<213> Homo sapiens

<400> 961

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<210> 962

<211> 782

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(782)
 <223> n = a,t,c or g

<400> 962
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<210> 963
 <211> 1734
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)...(1734)
 <223> n = a,t,c or g

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<210> 964
 <211> 1098
 <212> DNA
 <213> Homo sapiens

<400> 964						
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<210> 965
 <211> 422
 <212> DNA
 <213> Homo sapiens

<400> 965						
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aagggaaccc	ccagatttag	ttaaagcctt	aggcacaatt	agttaaaagt	gaaacgtaat	360
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<210> 966
 <211> 617

<212> DNA
<213> Homo sapiens

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 cattttggtg aagtggc 617

<210> 967
<211> 1446
<212> DNA
<213> Homo sapiens

<400> 967
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 ccgctgtgc tgggtggcct ccggagccac ggggttttggc tgaagcggag cagctacgag 240
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<210> 968
<211> 1495
<212> DNA
<213> Homo sapiens

<400> 968

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<210> 969

<211> 999

<212> DNA

<213> Homo sapiens

<400> 969

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<210> 970

<211> 865

<212> DNA

<213> Homo sapiens

<400> 970

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<210> 971

<211> 630

<212> DNA

<213> Homo sapiens

<400> 971

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<210> 972

<211> 426

<212> DNA

<213> Homo sapiens

<400> 972

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actagcgata	attattttaaa	agtacagaat	gttctaattc	tgtgttctgt	ctcctatgta	360
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aaaagc						426

<210> 973
 <211> 542
 <212> DNA
 <213> Homo sapiens

<400> 973
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<212> DNA

<213> Homo sapiens

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<400> 977

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<211> 1694

<212> DNA

<213> Homo sapiens

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<211> 2203

<212> DNA

<213> Homo sapiens

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 <211> 396
 <212> DNA
 <213> Homo sapiens

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 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

<400> 982
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<210> 983

<211> 377

<212> DNA

<213> Homo sapiens

<400> 983

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<210> 984

<211> 1813

<212> DNA

<213> Homo sapiens

<400> 984

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<210> 985

<211> 379

<212> DNA

<213> Homo sapiens

<400> 985

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<210> 986

<211> 876

<212> DNA

<213> Homo sapiens

<400> 986

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<210> 987

<211> 1884

<212> DNA

<213> Homo sapiens

<400> 987

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<210> 988

<211> 935

<212> DNA

<213> Homo sapiens

<400> 988

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<210> 989

<211> 2528

<212> DNA

<213> Homo sapiens

<400> 989

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 <212> DNA
 <213> Homo sapiens

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 <211> 335
 <212> DNA
 <213> Homo sapiens

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<210> 992
 <211> 447
 <212> DNA
 <213> Homo sapiens

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<210> 993
 <211> 1038
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 <213> Homo. sapiens

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<210> 994
 <211> 1459
 <212> DNA
 <213> Homo sapiens

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<210> 995

<211> 650

<212> DNA

<213> Homo sapiens

<400> 995						
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aagttactta	aagttcatag	aagttgctta	acttagtagt	gcattatcag	ggaatgaatt	240
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<210> 996

<211> 742

<212> DNA

<213> Homo sapiens

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<211> 745
 <212> DNA
 <213> Homo sapiens

<400> 997
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 ggtgggtcac gcctgtaatc ccagcacttt gggaggccaa ggcaggggga tcacctaaag 660
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 taaattagct gcgdcgtggg ccccg 745

<210> 998
 <211> 1040
 <212> DNA
 <213> Homo sapiens

<400> 998
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<210> 999
 <211> 2528
 <212> DNA
 <213> Homo sapiens

<400> 999
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<210> 1000

<211> 399

<212> DNA

<213> Homo sapiens

<400> 1000

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<210> 1001
 <211> 1058
 <212> DNA
 <213> Homo sapiens

<400> 1001
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 aacggaccca ggctcctttt acagagcgtg gtcttttcaa tgcggccccc gctctccgcg 960
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<210> 1002
 <211> 586
 <212> DNA
 <213> Homo sapiens

<400> 1002
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 ttttttgtat ttagtgggga tgaaaaaat cttatttaac tagagtatat actatggtat 180
 ttgcttgggg ttttagcagtg aacaagacat ctctggtccc catcttcatg gaccttagtc 240
 tggcagggaa gatattacatt aaacaaagga tgagaatgga agagaacttg cttggtgata 300
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 gactgatatg ggtgtaaaag cttaatgaag gagggaaaag tgactgaaga ggtagacagt 420
 tgagaaatag ttggtaaaag gtgatagtgt tgatttgagc tcagggtgaac aagcattttt 480
 ataaggggct agaggaagaa tgggtccagaa atggccttga ggaatgatga aaacaccaac 540
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<210> 1003
 <211> 401
 <212> DNA
 <213> Homo sapiens

<400> 1003
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acaggggcgg	cggcggcggc	agcgggtcct	aagaggacgg	ctgccacagc	ctcatggagt	300
acgcgtgggg	tgcagcagcg	ctgccatgct	tttctggggc	gtcagcatcc	tggagatctg	360
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<210> 1004

<211> 666

<212> DNA

<213> Homo sapiens

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<210> 1005

<211> 1968

<212> DNA

<213> Homo sapiens

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ccattttgtc	cattataaag	gaaataaaact	aattgttaac	ttgcatagat	tacttcttag	480
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gtatttcttt	ataactagt	ttaaggtttt	gttaatttta	ttgtatacat	ttgtaacatt	600
tattaggagc	cttttaggtt	ccaaaacaaa	caaaaggcat	aaaaaagtct	agcttagaac	660
cacttttccac	ttgctttcat	ttttaatttt	attcacttaa	cagctaacat	ctttcttggt	720
tcttggtttt	tcattatat	ggttatcgat	tcaactcttg	ctatattcct	taaatttgta	780
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ccattgggccc	aaaggatcag	ttgagaaaaca	gttaaggatg	aattagcata	agttatggaa	1020
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tgtgtcaatg	aagggcagtg	tagttatttt	aaaatgacta	atattttctc	cccaaataca	1140
gaataattca	gatgggcaac	caagttttca	agagactgct	gtaggtgaag	tctgtctagc	1200
caaggcagaa	cacttacagg	agtcacctaac	tgtgccaccc	ttggaatggg	ttagtgtaca	1260
ggctcagaat	attgtggatt	acagtttttc	agagaaaact	accacagatg	tagacaaaaa	1320

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gtcatctcga	ctaattctga	ggcaatgatg	gacagagatg	ctacttctta	tttaactcta	1860
ggcatgttga	cttttcaaag	cggtttcctt	atttctaaac	agagatgatg	atcaatgagt	1920
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<210> 1006
 <211> 380
 <212> DNA
 <213> Homo sapiens

<400> 1006						
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aggctgatga	gagctcgccg	acgtcatggg	catagggtgac	cgctgtgaga	acaagataac	240
gcctacacca	ctggtcacat	gttccacatt	gattttggcc	gcttcctggg	ccgtgcccag	300
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<210> 1007
 <211> 752
 <212> DNA
 <213> Homo sapiens

<400> 1007						
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<210> 1008
 <211> 1145
 <212> DNA
 <213> Homo sapiens

<400> 1008
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 aaaaatgccca tattagaaac tgatgattta aaagtaacaa caatgaatcc attacatgtg 180
 aacatactgt ttttttgttt gtttgtttgt ttgttttgag acggagtttc actcttttgc 240
 ccaggctgga gtgcagtgtt gcgattgcag ctactgttag tcttcgcctc ccaggctcaa 300
 gtgattctca tgcctcagcc tcctgagtag ctgggattac aggtgctcac caccacaccc 360
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 ctccaagtga tccaccacc ttggcctccc aaagtgtctg gattacgggc atgagccact 480
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 agatagttgg attctcgtat ctgtttttgt attcagctg ttgtggatgg tgatttgatt 660
 gaagtaaatg aaggaaatcc agctacatac agatttggag ttggaaaaaa tagtatttta 720
 ataacctttt tagatcatgg tggatactct tcttttgttt ggctcaaaaa ttagaacaaa 780
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<210> 1009
 <211> 737
 <212> DNA
 <213> Homo sapiens

<400> 1009
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 ttatctctct ccccaaaact agaattgtaa ttccaggaag gcagagattt ctatctattt 180
 ttttttctct tcccataatt ctggcatgtc tggcatagaa aaggcattta gttaaacattt 240
 gttaaatgaa ttgactatct tttctctgca aacttgttcc tcaaatctct ccaaaccata 300
 attgaaacaa gcagggtatt tattttggta caagtccctg ggctgtggat taaatccaag 360
 agcattgatc catatttttc aggggaatct cacattataa ataatgctgc atcgcttggg 420
 taaaaacttt tgtgaaagac taaatatgac atgagtctgt ttaaggaagg cgttaaatac 480
 gctcagacta cctctggcga attagattta tatttacctg cccctgttga taaggcctta 540
 tcacaccacg agcaccttca cttaataaca gtgttaagcg gggcggtatt tcttttccac 600
 tcacaccggc cagcgccatg cctttctatg tctcacgcac aagcatccct ctacgtcatc 660
 cagcgccgcc tccacactcc ccccgctccg caccgttccc acatagtcgc caccgcatg 720
 tccccgctcc cgcccc 737

<210> 1010
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 1010
 Met Pro Val Trp Leu Gly Gly Thr Phe Ala Pro Leu Cys Leu Ala Cys
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 Arg Ile Ser Asp Asp Phe Gly Glu Cys Cys Cys Ala Pro Tyr Leu Pro
 20 25 30

Gly Gly Leu His Ser Ile Arg Thr Gly Met Arg Glu Arg Tyr His Ile
 35 40 45
 Gln Gly Ser Val Gly His Asp Trp Ala Ala Leu Thr Phe Trp Leu Pro
 50 55 60
 Cys Ala Leu Cys Gln Met Ala Arg Glu Leu Lys Ile Arg Glu *
 65 70 75 78

<210> 1011
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1011
 Met Ser Leu Pro Trp Thr Phe Thr Val Leu Ile Leu Ala Pro Ser Leu
 1 5 10 15
 Ser Gly Ser Leu Ser Gly Lys Ser Ser Thr Cys Ala Pro Ala Pro Ser
 20 25 30
 Ala Pro Gly Ser Arg Ser Ser Gly Pro Arg Arg Asn His His Trp Ile
 35 40 45
 Ser Arg Tyr Thr Glu Ala Glu Pro Leu Trp Lys Ala Gln Asp Ile Ser
 50 55 60
 Thr Phe Cys Pro Ser Val Ala Val Thr Phe Arg Gly Asn Ser Val Asn
 65 70 75 80
 Phe Ala *
 82

<210> 1012
 <211> 131
 <212> PRT
 <213> Homo sapiens

<400> 1012
 Met Ala Ser Glu Val Val Cys Gly Leu Ile Phe Arg Leu Leu Leu Pro
 1 5 10 15
 Ile Cys Leu Ala Val Ala Cys Ala Phe Arg Tyr Asn Gly Leu Ser Phe
 20 25 30
 Val Tyr Leu Ile Tyr Leu Leu Leu Ile Pro Leu Phe Ser Glu Pro Thr
 35 40 45
 Lys Thr Thr Met Gln Gly His Thr Gly Arg Leu Leu Lys Ser Leu Cys
 50 55 60
 Phe Ile Ser Leu Ser Phe Leu Leu Leu His Ile Ile Phe His Ile Thr
 65 70 75 80
 Leu Val Ser Leu Glu Ala Gln His Arg Ile Ala Pro Gly Tyr Asn Cys
 85 90 95
 Ser Thr Trp Glu Lys Thr Phe Arg Gln Ile Gly Phe Glu Ser Leu Lys
 100 105 110
 Gly Ala Asp Ala Gly Asn Gly Ile Arg Val Leu Val Pro Asp Ile Gly
 115 120 125
 Met Val Ile
 130 131

<210> 1013
 <211> 231
 <212> PRT
 <213> Homo sapiens

<400> 1013
 Met Ile Gly Thr Ile Phe Leu Trp Ile Phe Trp Pro Ser Phe Asn Ala
 1 5 10 15
 Ala Leu Thr Ala Leu Gly Ala Gly Gln His Arg Thr Ala Leu Asn Thr
 20 25 30
 Tyr Tyr Ser Leu Ala Ala Ser Thr Leu Gly Thr Phe Ala Leu Ser Ala
 35 40 45
 Leu Val Gly Glu Asp Gly Arg Leu Asp Met Val His Ile Gln Asn Ala
 50 55 60
 Ala Leu Ala Gly Gly Val Val Gly Thr Ser Ser Glu Met Met Leu
 65 70 75 80
 Thr Pro Phe Gly Ala Leu Ala Ala Gly Phe Leu Ala Gly Thr Val Ser
 85 90 95
 Thr Leu Gly Tyr Lys Phe Phe Thr Pro Ile Leu Glu Ser Lys Phe Lys
 100 105 110
 Val Gln Asp Thr Cys Gly Val His Asn Leu His Gly Met Pro Gly Val
 115 120 125
 Leu Gly Ala Leu Leu Gly Val Leu Val Ala Gly Leu Ala Thr His Glu
 130 135 140
 Ala Tyr Gly Asp Gly Leu Glu Ser Val Phe Pro Leu Ile Ala Glu Gly
 145 150 155 160
 Gln Arg Ser Ala Thr Ser Gln Ala Met His Gln Leu Phe Gly Leu Phe
 165 170 175
 Val Thr Leu Met Phe Ala Ser Val Gly Gly Gly Leu Gly Gly Ile Ile
 180 185 190
 Leu Val Leu Cys Leu Leu Asp Pro Cys Ala Leu Trp His Trp Val Ala
 195 200 205
 Pro Ser Ser Met Val Gly Gly Arg Glu Ala Ser Gln Ile Leu Pro Tyr
 210 215 220
 His His Gln Gly Ser Cys *
 225 230

<210> 1014
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 1014
 Met Cys Glu Ile Ala Asp Leu Trp Ile Gly Leu Leu Trp Leu Phe Phe
 1 5 10 15
 Val Ile Tyr Cys Phe Ser Phe Asn Ser Leu Thr Thr Val Cys Arg Ala
 20 25 30
 Ala Val Val Phe Trp Arg Ser Ala Pro Asp Pro Gly Ala Leu Gly Phe
 35 40 45
 Phe Ser Ile Trp Lys Tyr His Gln Leu Arg Leu *
 50 55 59

<210> 1015

<211> 112
 <212> PRT
 <213> Homo sapiens

<400> 1015
 Met Met Thr Val Tyr Pro Leu Leu Gly Tyr Leu Ala Arg Val Gln Leu
 1 5 10 15
 Leu Gly His Ile Phe Gly Asp Ile Tyr Pro Ser Ile Phe His Val Leu
 20 25 30
 Ile Leu Asn Leu Ile Ile Val Gly Ala Gly Val Ile Met Ala Cys Phe
 35 40 45
 Tyr Pro Asn Ile Gly Gly Ile Ile Arg Tyr Ser Gly Ala Ala Cys Gly
 50 55 60
 Leu Ala Phe Val Phe Ile Tyr Pro Ser Leu Ile Tyr Ile Ile Ser Leu
 65 70 75 80
 His Gln Glu Glu Arg Leu Thr Trp Pro Lys Leu Ile Phe His Val Phe
 85 90 95
 Ile Ile Ile Leu Gly Val Ala Asn Leu Ile Val Gln Phe Phe Met *
 100 105 110 111

<210> 1016
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1016
 Met Ala Lys Tyr Ala Ser Met Thr Phe Lys Leu Phe Ser Leu Cys Val
 1 5 10 15
 Cys Met Tyr Ile His Ala Cys Thr His Thr His Ile Ser His Thr Asp
 20 25 30
 Ile Asp Ile Lys Gln Phe Tyr Ala Gln Glu Tyr Gln Gly Gln Pro Lys
 35 40 45
 Asp Lys Thr Asn Arg Ser Val Ile Tyr Cys Val Phe Asn Phe Ser Thr
 50 55 60
 Tyr Phe Tyr *
 65 67

<210> 1017
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 1017
 Met Arg Leu Leu Phe Ser Cys Arg Gly Arg Gly Met Phe Leu Phe Arg
 1 5 10 15
 Arg Arg Met Leu Pro Ser Arg Asp Arg Tyr Tyr Lys Asp Val Glu Leu
 20 25 30
 Ile Phe Asn Tyr Leu Gly Phe Leu Ile Val Ser Gly Leu Leu Asp Leu
 35 40 45
 Ile Phe *
 50

<210> 1018
 <211> 127
 <212> PRT
 <213> Homo sapiens

<400> 1018
 Met Leu Arg Phe Tyr Leu Ile Ala Gly Gly Ile Pro Leu Ile Ile Cys
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 Gly Ile Thr Ala Ala Val Asn Ile His Asn Tyr Arg Asp His Ser Pro
 20 25 30
 Tyr Cys Trp Leu Val Trp Arg Pro Ser Leu Gly Ala Phe Tyr Ile Pro
 35 40 45
 Val Ala Leu Ile Leu Leu Ile Thr Trp Ile Tyr Phe Leu Cys Ala Gly
 50 55 60
 Leu Arg Leu Arg Gly Pro Leu Ala Gln Asn Pro Lys Ala Gly Asn Ser
 65 70 75 80
 Arg Ala Ser Leu Glu Ala Gly Glu Glu Leu Arg Gly Ser Thr Arg Leu
 85 90 95
 Arg Gly Ser Gly Pro Leu Leu Ser Asp Ser Gly Ser Leu Leu Ala Thr
 100 105 110
 Gly Ser Ala Arg Val Gly Thr Pro Gly Pro Pro Glu Asp Gly Asp
 115 120 125 127

<210> 1019
 <211> 188
 <212> PRT
 <213> Homo sapiens

<400> 1019
 Met Gly Ser Ser Arg Leu Ala Ala Leu Leu Leu Pro Leu Leu Leu Ile
 1 5 10 15
 Val Ile Asp Leu Ser Asp Ser Ala Gly Ile Gly Phe Arg His Leu Pro
 20 25 30
 His Trp Asn Thr Arg Cys Pro Leu Ala Ser His Thr Asp Asp Ser Phe
 35 40 45
 Thr Gly Ser Ser Ala Tyr Ile Pro Cys Arg Thr Trp Trp Ala Leu Phe
 50 55 60
 Ser Thr Lys Pro Trp Cys Val Arg Val Trp His Cys Ser Arg Cys Leu
 65 70 75 80
 Cys Gln His Leu Leu Ser Gly Gly Ser Gly Leu Gln Arg Gly Leu Phe
 85 90 95
 His Leu Leu Val Gln Lys Ser Lys Lys Ser Ser Thr Phe Lys Phe Tyr
 100 105 110
 Arg Arg His Lys Met Pro Ala Pro Ala Gln Arg Lys Leu Leu Pro Arg
 115 120 125
 Arg His Leu Ser Glu Lys Ser His His Ile Ser Ile Pro Ser Pro Asp
 130 135 140
 Ile Ser His Lys Gly Leu Arg Ser Lys Arg Thr Pro Pro Phe Gly Ser
 145 150 155 160
 Arg Asp Met Gly Lys Ala Phe Pro Lys Trp Asp Ser Pro Thr Pro Gly
 165 170 175
 Gly Asp Arg Pro Ser Ser Phe Glu Leu Leu Pro *
 180 185 187

<210> 1020
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 1020
 Met Ile Leu Leu Cys Pro Gly Leu Thr Asp Leu Ser Val Phe Leu Phe
 1 5 10 15
 Ser Leu Thr Ile Gly His Phe Ser Arg Val Arg Gly Gln Thr Ile Thr
 20 25 30
 Ala Cys Pro Ser Ser Arg Ile Pro Ala Gly Phe Gln Asp Ile Val Gln
 35 40 45
 Gly Ser Ala Asn Ser Gly Pro Arg Ala Leu Ala Arg Cys Pro Cys Leu
 50 55 60 64
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<210> 1021
 <211> 136
 <212> PRT
 <213> Homo sapiens

<400> 1021
 Met Pro Gly Phe Lys Phe Cys Ser Ser Leu Arg Phe Leu Tyr Leu Ile
 1 5 10 15
 Asn Phe Pro Ile Gly Lys Phe Val Cys Leu Ala Ile Leu Leu Pro His
 20 25 30
 Phe Pro Leu Leu Ser Cys Cys Pro Leu Gln Asp His Leu Asp Phe Pro
 35 40 45
 Gly Lys Glu Ser Arg Tyr Ser Gly Ser Cys Trp Leu Pro Ser Tyr Ser
 50 55 60
 Leu Ser Val Ala Gly Ser Pro Leu Gly His Leu Pro Asn Thr Tyr Met
 65 70 75 80
 His Thr Pro Arg Thr Phe Ser Leu Leu Pro Ile Pro His Pro Ser Val
 85 90 95
 Asn Trp Asp Ser Phe Lys Pro Phe Ser Ile Arg Glu Ala Leu Ala Thr
 100 105 110
 Val Glu Ser Leu Gly Arg Gln Ala Phe Pro Asn Thr Pro Thr Thr Trp
 115 120 125
 Ala Phe Thr Leu His Leu Ser *
 130 135

<210> 1022
 <211> 186
 <212> PRT
 <213> Homo sapiens

<400> 1022
 Met Ala Gly Pro Arg Pro Arg Trp Arg Asp Gln Leu Leu Phe Met Ser

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      20           25           30
Leu Trp Glu Ala Gly Asn Leu Thr Asp Leu Pro Asn Leu Arg Ile Gly
      35           40           45
Phe Tyr Asn Phe Cys Leu Trp Asn Glu Asp Thr Ser Thr Leu Gln Cys
      50           55           60
His Gln Phe Pro Glu Leu Glu Ala Leu Gly Val Pro Arg Val Gly Leu
      65           70           75           80
Gly Leu Ala Arg Leu Gly Val Tyr Gly Ser Leu Val Leu Thr Leu Phe
      85           90           95
Ala Pro Gln Pro Leu Leu Leu Ala Gln Cys Asn Ser Asp Glu Arg Ala
      100          105          110
Trp Arg Leu Ala Val Gly Phe Leu Ala Val Ser Ser Val Leu Leu Ala
      115          120          125
Gly Gly Leu Gly Leu Phe Leu Ser Tyr Val Trp Lys Trp Val Arg Leu
      130          135          140
Ser Leu Pro Gly Pro Gly Phe Leu Ala Leu Gly Ser Ala Gln Ala Leu
      145          150          155          160
Leu Ile Leu Leu Leu Ile Ala Met Ala Val Phe Pro Leu Arg Ala Glu
      165          170          175
Arg Ala Glu Ser Lys Leu Glu Ser Cys *
      180          185

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<210> 1023

<211> 186

<212> PRT

<213> Homo sapiens

<400> 1023

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Met Ala Gly Pro Arg Pro Arg Trp Arg Asp Gln Leu Leu Phe Met Ser
      1           5           10           15
Ile Ile Val Leu Val Ile Val Val Ile Cys Leu Met Leu Tyr Ala Leu
      20           25           30
Leu Trp Glu Ala Gly Asn Leu Thr Asp Leu Pro Asn Leu Arg Ile Gly
      35           40           45
Phe Tyr Asn Phe Cys Leu Trp Asn Glu Asp Thr Ser Thr Leu Gln Cys
      50           55           60
His Gln Phe Pro Glu Leu Glu Ala Leu Gly Val Pro Arg Val Gly Leu
      65           70           75           80
Gly Leu Ala Arg Leu Gly Val Tyr Gly Ser Leu Val Leu Thr Leu Phe
      85           90           95
Ala Pro Gln Pro Leu Leu Leu Ala Gln Cys Asn Ser Asp Glu Arg Ala
      100          105          110
Trp Arg Leu Ala Val Gly Phe Leu Ala Val Ser Ser Val Leu Leu Ala
      115          120          125
Gly Gly Leu Gly Leu Phe Leu Ser Tyr Val Trp Lys Trp Val Arg Leu
      130          135          140
Ser Leu Pro Gly Pro Gly Phe Leu Ala Leu Gly Ser Ala Gln Ala Leu
      145          150          155          160
Leu Ile Leu Leu Leu Ile Ala Met Ala Val Phe Pro Leu Arg Ala Glu
      165          170          175
Arg Ala Glu Ser Lys Leu Glu Ser Cys *
      180          185

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<210> 1024
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 1024
 Met Val Cys Leu Val Gly Phe Leu Glu Leu Ile Leu Tyr Val Tyr Arg
 1 5 10 15
 Phe Arg Gln Ser Leu Ala Leu Ser His Arg Met Glu Cys Asn Gly Thr
 20 25 30
 Ile Leu Ala His Cys Asn Leu Arg Leu Pro Gly Ser Ser Asp Ser Pro
 35 40 45
 Thr Ser Ala Ser Arg Val Ala Gly Ile Thr Gly Thr Arg His His Ala
 50 55 60
 Arg Val Ile Phe Phe Val Phe Leu *
 65 70 72

<210> 1025
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 1025
 Met Phe Tyr Lys Leu Val Leu Trp Phe Trp Trp Cys Leu Thr Thr Arg
 1 5 10 15
 Gly Asn Leu Leu Cys Leu Ala Cys Ile Phe Ala Thr Leu Ser Leu Glu
 20 25 30
 Ser Lys Asn Phe Pro Thr Leu Gln Ala Thr Leu Leu Ile Arg Gln His
 35 40 45
 Phe Ile Tyr Lys Thr Phe Val Trp Pro Thr Val Cys His Asp Leu Cys
 50 55 60
 Ser Leu *
 65 66

<210> 1026
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 1026
 Met Gln Ala Gly Ser Ala Leu Trp His Leu Trp Ala Glu Gly Arg Cys
 1 5 10 15
 Trp Leu Trp Ala Gly Phe Gly Asn Phe Gly Glu Arg Pro His Leu Lys
 20 25 30
 Thr His Thr Asp Tyr Pro Gly Pro Thr Glu Ala Ser Cys Ile Gln Pro
 35 40 45
 Tyr Phe Pro Ser Arg Ile Met Leu Ser Ala Thr Pro Leu Glu Gly Tyr
 50 55 60
 Val Phe *
 65 66

<210> 1027
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 1027
 Met Leu Cys Val Trp Ile Lys Val Leu Phe Leu Leu Ile Ala Glu Ser
 1 5 10 15
 Asn Thr Trp Leu Leu Ser Pro Arg Thr Lys Asp Val Leu Lys Ser Glu
 20 25 30
 Pro Thr Gln Ile Tyr Pro His Thr Ser Arg Lys Gln Phe Lys Lys Pro
 35 40 45
 Gln Glu Ser Lys His Ser Phe Ile Gly Tyr *
 50 55 58

<210> 1028
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1028
 Met Phe Gln Val Gly Gly Arg Val Phe Lys Arg Cys Ile Phe Ser Phe
 1 5 10 15
 Cys Cys Cys His Phe Ile Gly Leu Gly Leu Gly Val Cys Phe Ser Ser
 20 25 30
 Leu Asn Gly Thr Arg Met Phe Ala Asp Ser Tyr Ser Val *
 35 40 45

<210> 1029
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1029
 Met Ala Phe Arg Thr Cys Phe Leu Ser Cys Leu Thr Val Val Lys Val
 1 5 10 15
 Cys Ser Lys Ala Ser Pro Ser Phe Ser Thr Gln Gln Pro Cys Val Thr
 20 25 30
 Thr Lys Val Glu Leu Ser Leu Ile Cys Cys Cys Phe Ser Ser Lys Leu
 35 40 45
 Pro Asn Lys Ala Lys Asn Thr Leu Val Phe Tyr Ser *
 50 55 60

<210> 1030
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1030
 Met Trp Leu Arg Lys Cys Leu Leu Gly Leu Ser Leu Ile Ser Phe Arg
 1 5 10 15
 Val Cys Gly Pro Leu Ile Ala Leu Trp Val Val Ser Asp Ser Ser Ile
 20 25 30
 Arg Arg Leu Asn Pro Leu Val Val Phe Leu Cys Val Cys Ala Glu Leu
 35 40 45
 Gly *
 49

<210> 1031
 <211> 152
 <212> PRT
 <213> Homo sapiens

<400> 1031
 Met Ile Val Tyr Trp Val Leu Met Ser Asn Phe Leu Phe Asn Thr Gly
 1 5 10 15
 Lys Phe Ile Phe Asn Phe Ile His His Ile Asn Asp Thr Asp Thr Ile
 20 25 30
 Leu Ser Thr Asn Asn Ser Asn Pro Val Ile Cys Pro Ser Ala Gly Ser
 35 40 45
 Gly Gly His Pro Asp Asn Ser Ser Met Ile Phe Tyr Ala Asn Asp Thr
 50 55 60
 Gly Ala Gln Gln Phe Glu Lys Trp Trp Asp Lys Ser Arg Thr Val Pro
 65 70 75 80
 Phe Tyr Leu Val Gly Leu Leu Leu Pro Leu Leu Asn Phe Lys Ser Pro
 85 90 95
 Ser Phe Phe Ser Lys Phe Asn Ile Leu Gly Ile Asn Asn Gln Val Ile
 100 105 110
 Leu Pro Gly Val Thr Glu Met Pro Gly Tyr Cys Pro Phe Leu Leu Pro
 115 120 125
 Val Ser Thr Glu Cys Cys Ala Val Ala Thr Ser Tyr Thr Cys Phe Glu
 130 135 140
 Glu Lys Asn Ile Gly Gln Cys Cys
 145 150 152

<210> 1032
 <211> 1764
 <212> PRT
 <213> Homo sapiens

<400> 1032
 Met Pro Ser Arg Leu Lys Ala Leu Gly Thr Leu Val Ser His Val Thr
 1 5 10 15
 Leu Arg Leu Leu Lys Pro Glu Cys Val Leu Asp Lys Ser Trp Cys Gln
 20 25 30
 Glu Glu Leu Ser Val Ala Val Lys Arg Ala Val Met Leu Leu His Thr
 35 40 45
 His Thr Ile Thr Ser Arg Val Gly Lys Gly Glu Pro Gly Ala Ala Pro
 50 55 60
 Leu Ser Ala Pro Ala Phe Ser Leu Val Phe Pro Phe Leu Lys Met Val

65					70					75				80
Leu	Thr	Glu	Met	Pro	His	His	Ser	Glu	Glu	Glu	Glu	Trp	Met	Ala
				85					90				95	
Gln	Ile	Leu	Gln	Ile	Leu	Thr	Val	Gln	Ala	Gln	Leu	Arg	Ala	Ser
			100					105					110	
Asn	Thr	Pro	Pro	Gly	Arg	Val	Asp	Glu	Asn	Gly	Pro	Glu	Leu	Pro
			115				120					125		
Arg	Val	Ala	Met	Leu	Arg	Leu	Leu	Thr	Trp	Val	Ile	Gly	Thr	Gly
	130					135					140			
Pro	Arg	Leu	Gln	Val	Leu	Ala	Ser	Asp	Thr	Leu	Thr	Thr	Leu	Cys
145					150					155				160
Ser	Ser	Ser	Gly	Asp	Asp	Gly	Cys	Ala	Phe	Ala	Glu	Gln	Glu	Glu
			165						170					175
Asp	Val	Leu	Leu	Cys	Ala	Leu	Gln	Ser	Pro	Cys	Ala	Ser	Val	Arg
			180					185					190	
Thr	Val	Leu	Arg	Gly	Leu	Met	Glu	Leu	His	Met	Val	Leu	Pro	Ala
	195						200					205		
Asp	Thr	Asp	Glu	Lys	Asn	Gly	Leu	Asn	Leu	Leu	Arg	Arg	Leu	Trp
	210					215					220			
Val	Lys	Phe	Asp	Lys	Glu	Glu	Glu	Ile	Arg	Lys	Leu	Ala	Glu	Arg
225					230					235				240
Trp	Ser	Met	Met	Gly	Leu	Asp	Leu	Gln	Pro	Asp	Leu	Cys	Ser	Leu
				245					250					255
Ile	Asp	Asp	Val	Ile	Tyr	His	Glu	Ala	Ala	Val	Arg	Gln	Ala	Gly
	260						265						270	
Glu	Ala	Leu	Ser	Gln	Ala	Val	Ala	Arg	Tyr	Gln	Arg	Gln	Ala	Ala
	275						280					285		
Val	Met	Gly	Arg	Leu	Met	Glu	Ile	Tyr	Gln	Glu	Lys	Leu	Tyr	Arg
	290					295					300			
Pro	Pro	Val	Leu	Asp	Ala	Leu	Gly	Arg	Val	Ile	Ser	Glu	Ser	Pro
305					310					315				320
Asp	Gln	Trp	Glu	Ala	Arg	Cys	Gly	Leu	Ala	Leu	Ala	Leu	Asn	Lys
				325					330					335
Ser	Gln	Tyr	Leu	Asp	Ser	Ser	Gln	Val	Lys	Pro	Leu	Phe	Gln	Phe
	340						345						350	
Val	Pro	Asp	Ala	Leu	Asn	Asp	Arg	His	Pro	Asp	Val	Arg	Lys	Cys
	355						360					365		
Leu	Asp	Ala	Ala	Leu	Ala	Thr	Leu	Asn	Thr	His	Gly	Lys	Glu	Asn
	370					375					380			
Asn	Ser	Leu	Leu	Pro	Val	Phe	Glu	Glu	Phe	Leu	Lys	Asn	Ala	Pro
385					390					395				400
Asp	Ala	Ser	Tyr	Asp	Ala	Val	Arg	Gln	Ser	Val	Val	Val	Leu	Met
			405						410				415	
Ser	Leu	Ala	Lys	His	Leu	Asp	Lys	Ser	Asp	Pro	Lys	Val	Lys	Pro
			420						425				430	
Val	Ala	Lys	Leu	Ile	Ala	Ala	Leu	Ser	Thr	Pro	Ser	Gln	Gln	Val
	435						440					445		
Glu	Ser	Val	Ala	Ser	Cys	Leu	Pro	Pro	Leu	Val	Pro	Ala	Ile	Lys
	450					455					460			
Asp	Ala	Gly	Gly	Met	Ile	Gln	Arg	Leu	Met	Gln	Gln	Leu	Leu	Glu
465					470					475				480
Asp	Lys	Tyr	Ala	Glu	Arg	Lys	Gly	Ala	Ala	Tyr	Gly	Leu	Ala	Gly
			485						490					495
Val	Lys	Gly	Leu	Gly	Ile	Leu	Ser	Leu	Lys	Gln	Gln	Glu	Met	Met
			500						505				510	
Ala	Leu	Thr	Asp	Ala	Ile	Gln	Asp	Lys	Lys	Asn	Phe	Arg	Arg	Arg
	515						520					525		
Gly	Ala	Leu	Phe	Ala	Phe	Glu	Met	Leu	Cys	Thr	Met	Leu	Gly	Lys
	530					535					540			

Phe	Glu	Pro	Tyr	Val	Val	His	Val	Leu	Pro	His	Leu	Leu	Leu	Cys	Phe
545					550					555					560
Gly	Asp	Gly	Asn	Gln	Tyr	Val	Arg	Glu	Ala	Ala	Asp	Asp	Cys	Ala	Lys
			565						570					575	
Ala	Val	Met	Ser	Asn	Leu	Ser	Ala	His	Gly	Val	Lys	Leu	Val	Leu	Pro
			580					585					590		
Ser	Leu	Leu	Ala	Ala	Leu	Glu	Glu	Glu	Ser	Trp	Arg	Thr	Lys	Ala	Gly
		595					600					605			
Ser	Val	Glu	Leu	Leu	Gly	Ala	Met	Ala	Tyr	Cys	Ala	Pro	Lys	Gln	Leu
	610				615						620				
Ser	Ser	Cys	Leu	Pro	Asn	Ile	Val	Pro	Lys	Leu	Thr	Glu	Val	Leu	Thr
625					630					635					640
Asp	Ser	His	Val	Lys	Val	Gln	Lys	Ala	Gly	Gln	Gln	Ala	Leu	Arg	Gln
			645						650					655	
Ile	Gly	Ser	Val	Ile	Arg	Asn	Pro	Glu	Ile	Leu	Ala	Ile	Ala	Pro	Val
		660						665					670		
Leu	Leu	Asp	Ala	Leu	Thr	Asp	Pro	Ser	Arg	Lys	Thr	Gln	Lys	Cys	Leu
		675					680					685			
Gln	Thr	Leu	Leu	Asp	Thr	Lys	Phe	Val	His	Phe	Ile	Asp	Ala	Pro	Ser
	690					695					700				
Leu	Ala	Leu	Ile	Met	Pro	Ile	Val	Gln	Arg	Ala	Phe	Gln	Asp	Arg	Ser
705					710					715					720
Thr	Asp	Thr	Arg	Lys	Met	Ala	Ala	Gln	Ile	Ile	Gly	Asn	Met	Tyr	Ser
			725						730					735	
Leu	Thr	Asp	Gln	Lys	Asp	Leu	Ala	Pro	Tyr	Leu	Pro	Ser	Val	Thr	Pro
		740					745						750		
Gly	Leu	Lys	Ala	Ser	Leu	Leu	Asp	Pro	Val	Pro	Glu	Val	Arg	Thr	Val
		755					760					765			
Ser	Ala	Lys	Ala	Leu	Gly	Ala	Met	Val	Lys	Gly	Met	Gly	Glu	Ser	Cys
	770				775					780					
Phe	Glu	Asp	Leu	Leu	Pro	Trp	Leu	Met	Glu	Thr	Leu	Thr	Tyr	Glu	Gln
785					790					795					800
Ser	Ser	Val	Asp	Arg	Ser	Gly	Ala	Ala	Gln	Gly	Leu	Ala	Glu	Val	Met
			805						810					815	
Ala	Gly	Leu	Gly	Val	Glu	Lys	Leu	Glu	Lys	Leu	Met	Pro	Glu	Ile	Val
		820						825					830		
Ala	Thr	Ala	Ser	Lys	Val	Asp	Ile	Ala	Pro	His	Val	Arg	Asp	Gly	Tyr
		835					840					845			
Ile	Met	Met	Phe	Asn	Tyr	Leu	Pro	Ile	Thr	Phe	Gly	Asp	Lys	Phe	Thr
	850					855				860					
Pro	Tyr	Val	Gly	Pro	Ile	Ile	Pro	Cys	Ile	Leu	Lys	Ala	Leu	Ala	Asp
865					870					875					880
Glu	Asn	Glu	Phe	Val	Arg	Asp	Thr	Ala	Leu	Arg	Ala	Gly	Gln	Arg	Val
			885						890					895	
Ile	Ser	Met	Tyr	Ala	Glu	Thr	Ala	Ile	Ala	Leu	Leu	Leu	Pro	Gln	Leu
		900						905					910		
Glu	Gln	Gly	Leu	Phe	Asp	Asp	Leu	Trp	Arg	Ile	Arg	Phe	Ser	Ser	Val
		915					920					925			
Gln	Leu	Leu	Gly	Asp	Leu	Leu	Phe	His	Ile	Ser	Gly	Val	Thr	Gly	Lys
	930						935				940				
Met	Thr	Thr	Glu	Thr	Ala	Ser	Glu	Asp	Asp	Asn	Phe	Gly	Thr	Ala	Gln
945					950					955					960
Ser	Asn	Lys	Ala	Ile	Ile	Thr	Ala	Leu	Gly	Val	Glu	Arg	Arg	Asn	Arg
			965						970					975	
Val	Leu	Ala	Gly	Leu	Tyr	Met	Gly	Arg	Ser	Asp	Thr	Gln	Leu	Val	Val
		980						985					990		
Arg	Gln	Ala	Ser	Leu	His	Val	Trp	Lys	Ile	Val	Val	Ser	Asn	Thr	Pro
		995				1000						1005			
Arg	Thr	Leu	Arg	Glu	Ile	Leu	Pro	Thr	Leu	Phe	Gly	Leu	Leu	Leu	Gly

1010	1015	1020
Phe Leu Ala Ser Thr Cys Ala Asp Lys Arg Thr Ile Ala Ala Arg Thr		
1025	1030	1035
Leu Gly Asp Leu Val Arg Lys Leu Gly Glu Lys Ile Leu Pro Glu Ile		1040
	1045	1050
Ile Pro Ile Leu Glu Glu Gly Leu Arg Ser Gln Lys Ser Asp Glu Arg		1055
	1060	1065
Gln Gly Val Cys Ile Gly Leu Ser Glu Ile Met Lys Ser Thr Ser Arg		1070
	1075	1080
Asp Ala Val Leu Tyr Phe Ser Glu Ser Leu Val Pro Thr Ala Arg Lys		1085
	1090	1095
Ala Leu Cys Asp Pro Leu Glu Glu Val Arg Glu Ala Ala Ala Lys Thr		1100
1105	1110	1115
Phe Glu Gln Leu His Ser Thr Ile Gly His Gln Ala Leu Glu Asp Ile		1120
	1125	1130
Leu Pro Phe Leu Leu Lys Gln Leu Asp Asp Glu Glu Val Ser Glu Phe		1135
	1140	1145
Ala Leu Asp Gly Leu Lys Gln Val Met Ala Ile Lys Ser Arg Val Val		1150
	1155	1160
Leu Pro Tyr Leu Val Pro Lys Leu Thr Thr Pro Pro Val Asn Thr Arg		1165
	1170	1175
Val Leu Ala Phe Leu Ser Ser Val Ala Gly Asp Ala Leu Thr Arg His		1180
1185	1190	1195
Leu Gly Val Ile Leu Pro Ala Val Met Leu Ala Leu Lys Glu Lys Leu		1200
	1205	1210
Gly Thr Pro Asp Glu Gln Leu Glu Met Ala Asn Cys Gln Ala Val Ile		1215
	1220	1225
Leu Ser Val Glu Asp Asp Thr Gly His Arg Ile Ile Ile Glu Asp Leu		1230
	1235	1240
Leu Glu Ala Thr Arg Ser Pro Glu Val Gly Met Arg Gln Ala Ala Ala		1245
	1250	1255
Ile Ile Leu Asn Ile Tyr Cys Ser Arg Ser Lys Ala Asp Tyr Thr Ser		1260
1265	1270	1275
His Leu Arg Ser Leu Val Ser Gly Leu Ile Arg Leu Phe Asn Asp Ser		1280
	1285	1290
Ser Pro Val Val Leu Glu Glu Ser Trp Asp Ala Leu Asn Ala Ile Thr		1295
	1300	1305
Lys Lys Leu Asp Ala Gly Asn Gln Leu Ala Leu Ile Glu Glu Leu His		1310
	1315	1320
Lys Glu Ile Arg Leu Ile Gly Asn Glu Ser Lys Gly Glu His Val Pro		1325
	1330	1335
Gly Phe Cys Leu Pro Lys Lys Gly Val Thr Ser Ile Leu Pro Val Leu		1340
1345	1350	1355
Arg Glu Gly Val Leu Thr Gly Ser Pro Glu Gln Lys Glu Glu Ala Ala		1360
	1365	1370
Lys Ala Leu Gly Leu Val Ile Arg Leu Thr Ser Ala Asp Ala Leu Arg		1375
	1380	1385
Pro Ser Val Val Ser Ile Thr Gly Pro Leu Ile Arg Ile Leu Gly Asp		1390
	1395	1400
Arg Phe Ser Trp Asn Val Lys Ala Ala Leu Leu Glu Thr Leu Ser Leu		1405
	1410	1415
Leu Leu Ala Lys Val Gly Ile Ala Leu Lys Pro Phe Leu Pro Gln Leu		1420
1425	1430	1435
Gln Thr Thr Phe Thr Lys Ala Leu Gln Asp Ser Asn Arg Gly Val Arg		1440
	1445	1450
Leu Lys Ala Ala Asp Ala Leu Gly Lys Leu Ile Ser Ile His Ile Lys		1455
	1460	1465
Val Asp Pro Leu Phe Thr Glu Leu Leu Asn Gly Ile Arg Ala Met Glu		1470
	1475	1480
		1485

Asp Pro Gly Val Arg Asp Thr Met Leu Gln Ala Leu Arg Phe Val Ile
 1490 1495 1500
 Gln Gly Ala Gly Ala Lys Val Asp Ala Val Ile Arg Lys Asn Ile Val
 1505 1510 1515 1520
 Ser Leu Leu Leu Ser Met Leu Gly His Asp Glu Asp Asn Thr Arg Ile
 1525 1530 1535
 Ser Ser Ala Gly Cys Leu Gly Glu Leu Cys Ala Phe Leu Thr Glu Glu
 1540 1545 1550
 Glu Leu Ser Ala Val Leu Gln Gln Cys Leu Leu Ala Asp Val Ser Gly
 1555 1560 1565
 Ile Asp Trp Met Val Arg His Gly Arg Ser Leu Ala Leu Ser Val Ala
 1570 1575 1580
 Val Asn Val Ala Pro Gly Arg Leu Cys Ala Gly Arg Tyr Ser Ser Asp
 1585 1590 1595 1600
 Val Gln Glu Met Ile Leu Ser Ser Ala Thr Ala Asp Arg Ile Pro Ile
 1605 1610 1615
 Ala Val Ser Gly Val Arg Gly Met Gly Phe Leu Met Arg His His Ile
 1620 1625 1630
 Glu Thr Gly Gly Gly Gln Leu Pro Ala Lys Leu Ser Ser Leu Phe Val
 1635 1640 1645
 Lys Cys Leu Gln Asn Pro Ser Ser Asp Ile Arg Leu Val Ala Glu Lys
 1650 1655 1660
 Met Ile Trp Trp Ala Asn Lys Asp Pro Leu Pro Pro Leu Asp Pro Gln
 1665 1670 1675 1680
 Ala Ile Lys Pro Ile Leu Lys Ala Leu Leu Asp Asn Thr Lys Asp Lys
 1685 1690 1695
 Asn Thr Val Val Arg Ala Tyr Ser Asp Gln Ala Ile Val Asn Leu Leu
 1700 1705 1710
 Lys Met Arg Gln Gly Glu Glu Val Phe Gln Ser Leu Ser Lys Ile Leu
 1715 1720 1725
 Asp Val Ala Ser Leu Glu Val Leu Asn Glu Val Asn Arg Arg Ser Leu
 1730 1735 1740
 Lys Lys Leu Ala Ser Gln Ala Asp Ser Thr Glu Gln Val Asp Asp Thr
 1745 1750 1755 1760
 Ile Leu Thr *
 1763

<210> 1033
 <211> 151
 <212> PRT
 <213> Homo sapiens

<400> 1033
 Met Asn Arg Arg Ala Ser Gln Met Leu Leu Met Phe Leu Leu Ala Ile
 1 5 10 15
 Cys Leu Leu Ala Ile Ile Phe Val Pro Gln Glu Met Gln Met Leu Arg
 20 25 30
 Glu Val Leu Ala Thr Leu Gly Leu Gly Ala Ser Ala Leu Ala Asn Thr
 35 40 45
 Leu Ala Phe Ala His Gly Asn Glu Val Ile Pro Thr Ile Ile Arg Ala
 50 55 60
 Arg Ala Met Gly Ile Asn Ala Thr Phe Ala Asn Ile Ala Gly Ala Leu
 65 70 75 80
 Ala Pro Leu Met Met Ile Leu Ser Val Tyr Ser Pro Pro Leu Pro Trp
 85 90 95
 Ile Ile Tyr Gly Val Phe Pro Phe Ile Ser Gly Phe Ala Phe Leu Leu

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      100      105      110
Leu Pro Glu Thr Arg Asn Lys Pro Leu Phe Asp Thr Ile Gln Asp Glu
      115      120      125
Lys Asn Glu Arg Lys Asp Pro Arg Glu Pro Lys Gln Glu Asp Pro Arg
      130      135      140
Val Glu Val Thr Gln Phe *
145      150

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<210> 1034
<211> 149
<212> PRT
<213> Homo sapiens

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<400> 1034
Met Ala Leu Leu Leu Pro Arg Trp Phe Arg Glu Ala Pro Val Leu Phe
 1      5      10      15
Ser Thr Gly Trp Ser Pro Leu Asp Val Leu Leu His Ser Leu Leu Thr
      20      25      30
Gln Pro Ile Phe Leu Ala Gly Leu Ser Gly Phe Leu Leu Glu Asn Thr
      35      40      45
Ile Pro Gly Thr Gln Leu Glu Arg Gly Leu Gly Gln Gly Leu Pro Ser
      50      55      60
Pro Phe Thr Ala Gln Glu Ala Arg Met Pro Gln Lys Pro Arg Glu Lys
65      70      75      80
Ala Ala Gln Val Tyr Arg Leu Pro Phe Pro Ile Gln Asn Leu Cys Pro
      85      90      95
Cys Ile Pro Gln Pro Leu His Cys Leu Cys Pro Leu Pro Glu Asp Pro
      100      105      110
Gly Asp Glu Glu Gly Gly Ser Ser Glu Pro Glu Glu Met Ala Asp Leu
      115      120      125
Leu Pro Gly Ser Gly Glu Pro Cys Pro Glu Ser Thr Arg Glu Gly Val
      130      135      140
Arg Ser Gln Lys *
145      148

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<210> 1035
<211> 88
<212> PRT
<213> Homo sapiens

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<400> 1035
Met Gly Ile Ala Leu Leu Gln Ile Phe Gly Ile Cys Leu Ala Gln Asn
 1      5      10      15
Leu Val Ser Asp Ile Lys Ala Val Lys Ala Asn Trp Ser Lys Trp Asn
      20      25      30
Asp Asp Phe Glu Asn His Trp Leu Thr Pro Thr Ile Ser Glu Val Leu
      35      40      45
Ser Thr Ala Gly Pro Gln Gln Asn Ser Leu Thr Gly Ala Pro Gly Pro
      50      55      60
Ala Pro Pro Ser Arg His Val Phe Phe Gly Leu Gly Gly Leu Tyr Pro
65      70      75      80
Glu Pro Thr Phe Lys Asn Trp *
      85      87

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<210> 1036
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 1036
 Met Val Val Leu Ile Pro Val Ser Trp Val Ala Asn Ala Ile Ile Arg
 1 5 10 15
 Asp Phe Tyr Asn Ser Ile Val Asn Val Ala Gln Lys Arg Glu Leu Gly
 20 25 30
 Glu Ala Leu Tyr Leu Gly Trp Thr Thr Ala Leu Val Leu Ile Val Gly
 35 40 45
 Gly Ala Leu Phe Cys Cys Val Phe Cys Cys Asn Glu Lys Ser Ser Ser
 50 55 60
 Tyr Arg Tyr Ser Ile Pro Ser His Arg Thr Thr Gln Lys Ser Tyr His
 65 70 75 80
 Thr Gly Lys Lys Ser Pro Ser Val Tyr Ser Arg Ser Gln Tyr Val *
 85 90 95

<210> 1037
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 1037
 Met Ala Leu Ser Trp Met Thr Ile Val Val Pro Leu Leu Thr Phe Glu
 1 5 10 15
 Ile Leu Leu Val His Lys Leu Asp Gly His Asn Ala Phe Ser Cys Ile
 20 25 30
 Pro Ile Phe Val Pro Leu Trp Leu Ser Leu Ile Thr Leu Met Ala Thr
 35 40 45
 Thr Phe Gly Gln Lys Gly Gly Asn His Trp Trp Phe Gly Ile Arg Lys
 50 55 60
 Asp Phe Cys Gln Phe Leu Leu Glu Ile Phe Pro Phe Leu Arg Glu Tyr
 65 70 75 80
 Gly Asn Ile Ser Tyr Asp Leu His His Glu Asp Asn Glu Glu Thr Glu
 85 90 95
 Glu Thr Pro Val Pro Glu Pro Pro Lys Ile Ala Pro Met Phe Arg Lys
 100 105 110
 Lys Ala Arg Val Val Ile Thr Gln Ser Pro Gly Lys Tyr Val Leu Pro
 115 120 125
 Pro Pro Lys Leu Asn Ile Glu Met Pro Asp *
 130 135 138

<210> 1038
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 1038

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Met Val Leu Ser Gly Ile His Trp Tyr Ser Val Leu Leu Leu Ala Val
 1              5              10              15
Glu Phe Cys Arg Tyr Cys Pro Leu Arg Tyr Arg Cys Ser Thr Phe Ser
      20              25              30
Ser Trp Ala Arg Val Ser Ser Thr Pro Gln Ala Ser Ser Pro Val Ala
      35              40              45
Leu Thr Met Leu Ser Ser Arg Gly Arg Ser Glu Gly Gly Ala Leu *
      50              55              60              63

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<210> 1039

<211> 286

<212> PRT

<213> Homo sapiens

<400> 1039

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Met Met Leu Gly Pro Val Thr Leu His Leu Val Gly His Leu Leu Ala
 1              5              10              15
Phe Leu Asp Leu Leu Cys Pro Arg Gly Pro Ile His Ser Ile Leu Pro
      20              25              30
Met Thr Phe Glu Ala Val Lys Gln Asp His Gly Phe Met Leu Tyr Arg
      35              40              45
Thr Tyr Met Thr His Thr Ile Phe Glu Pro Thr Pro Phe Trp Val Pro
      50              55              60
Asn Asn Gly Val His Asp Arg Ala Tyr Val Met Val Asp Gly Val Phe
      65              70              75              80
Gln Gly Val Val Glu Arg Asn Met Arg Asp Lys Leu Phe Leu Thr Gly
      85              90              95
Lys Leu Gly Ser Lys Leu Asp Ile Leu Val Glu Asn Met Gly Arg Leu
      100              105              110
Ser Phe Gly Ser Asn Ser Ser Asp Phe Lys Gly Leu Leu Lys Pro Pro
      115              120              125
Ile Leu Gly Gln Thr Ile Leu Thr Gln Trp Met Met Phe Pro Leu Lys
      130              135              140
Ile Asp Asn Leu Val Lys Trp Trp Phe Pro Leu Gln Leu Pro Lys Trp
      145              150              155              160
Pro Tyr Pro Gln Ala Pro Ser Gly Pro Thr Phe Tyr Ser Lys Thr Phe
      165              170              175
Pro Ile Leu Gly Ser Val Gly Asp Thr Phe Leu Tyr Leu Pro Gly Trp
      180              185              190
Thr Lys Gly Gln Val Trp Ile Asn Gly Phe Asn Leu Gly Arg Tyr Trp
      195              200              205
Thr Lys Gln Gly Pro Gln Gln Thr Leu Tyr Val Pro Arg Phe Leu Leu
      210              215              220
Phe Pro Arg Gly Ala Leu Asn Lys Ile Thr Leu Leu Glu Leu Glu Asp
      225              230              235              240
Val Pro Leu Gln Pro Gln Val Gln Phe Leu Asp Lys Pro Ile Leu Asn
      245              250              255
Ser Thr Ser Thr Leu His Arg Thr His Ile Asn Ser Leu Ser Ala Asp
      260              265              270
Thr Leu Ser Ala Ser Glu Pro Met Glu Leu Ser Gly His *
      275              280              285

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<210> 1040

<211> 96
 <212> PRT
 <213> Homo sapiens

<400> 1040
 Met His Ala His Ser Ala Ser Leu Trp Val Ala Phe Phe Tyr Arg Ser
 1 5 10 15
 Pro Phe Leu Phe Phe Thr Thr Gly Pro Pro Pro Pro Thr Ser Ser Ser
 20 25 30
 Pro Ala Gly Leu Pro Leu Leu Glu Ser Thr Val Asp Ala Ser Arg Pro
 35 40 45
 Asn Trp Leu Pro Leu Leu Leu Ser Pro Pro Leu Pro Phe Leu Ser Ile
 50 55 60
 Glu Cys Thr Leu Tyr Asn Phe Ser Gly Ile Val Ile Glu Asn Lys Ile
 65 70 75 80
 Phe Thr Ile Ile Thr Gly Phe Phe Gln Val Thr Ser Cys Arg Leu *
 85 90 95

<210> 1041
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 1041
 Met Ser Asp Ile Ser Pro Leu Leu Tyr Glu Ile Trp Leu Gly Asp Thr
 1 5 10 15
 Ser Ala Gly Phe Phe Thr Phe Cys Val Thr Val Leu His Val Leu Leu
 20 25 30
 Leu Leu Ser Ser Val Leu His Phe Leu Cys Pro Arg Asp Thr Ser Val
 35 40 45
 Ile Ser Pro Phe Ile Pro Pro Leu Thr Pro Pro Gln Ser Arg Leu *
 50 55 60 63

<210> 1042
 <211> 415
 <212> PRT
 <213> Homo sapiens

<400> 1042
 Met Asn Glu Thr Gly Val Ile Val Trp Tyr Leu Ala Leu Cys Leu Leu
 1 5 10 15
 Leu Ala Trp Leu Ile Val Gly Ala Ala Leu Phe Lys Gly Ile Lys Ser
 20 25 30
 Ser Gly Lys Val Val Tyr Phe Thr Ala Leu Phe Pro Tyr Val Val Leu
 35 40 45
 Leu Ile Leu Leu Val Arg Gly Ala Thr Leu Glu Gly Ala Ser Lys Gly
 50 55 60
 Ile Ser Tyr Tyr Ile Gly Ala Gln Ser Asn Phe Thr Lys Leu Lys Glu
 65 70 75 80
 Ala Glu Val Trp Lys Asp Ala Ala Thr Gln Ile Phe Tyr Ser Leu Ser
 85 90 95
 Val Ala Trp Gly Gly Leu Val Ala Leu Ser Ser Tyr Asn Lys Phe Lys

```

      100      105      110
Asn Asn Cys Phe Ser Asp Ala Ile Val Val Cys Leu Thr Asn Cys Leu
      115      120      125
Thr Ser Val Phe Ala Gly Phe Ala Ile Phe Ser Ile Leu Gly His Met
      130      135      140
Ala His Ile Ser Gly Lys Glu Val Ser Gln Val Val Lys Ser Gly Phe
      145      150      155      160
Asp Leu Ala Phe Ile Ala Tyr Pro Glu Ala Leu Ala Gln Leu Pro Gly
      165      170      175
Gly Pro Phe Trp Ser Ile Leu Phe Phe Phe Met Leu Leu Thr Leu Gly
      180      185      190
Leu Asp Ser Gln Phe Ala Ser Ile Glu Thr Ile Thr Thr Thr Ile Gln
      195      200      205
Asp Leu Phe Pro Lys Val Met Lys Lys Met Arg Val Pro Ile Thr Leu
      210      215      220
Gly Cys Cys Leu Val Leu Phe Leu Leu Gly Leu Val Cys Val Thr Gln
      225      230      235      240
Ala Gly Ile Tyr Trp Val His Leu Ile Asp His Phe Cys Ala Gly Trp
      245      250      255
Gly Ile Leu Ile Ala Ala Ile Leu Glu Leu Val Gly Ile Ile Trp Ile
      260      265      270
Tyr Gly Gly Asn Arg Phe Ile Glu Asp Thr Glu Met Met Ile Gly Ala
      275      280      285
Lys Arg Trp Ile Phe Trp Leu Trp Trp Arg Ala Cys Trp Phe Val Ile
      290      295      300
Thr Pro Ile Leu Leu Ile Ala Ile Phe Ile Trp Ser Leu Val Gln Phe
      305      310      315      320
His Arg Pro Asn Tyr Gly Ala Ile Pro Tyr Pro Asp Trp Gly Val Ala
      325      330      335
Leu Gly Trp Cys Met Ile Val Phe Cys Ile Ile Trp Ile Pro Ile Met
      340      345      350
Ala Ile Ile Lys Ile Ile Gln Ala Lys Gly Asn Ile Phe Gln Arg Leu
      355      360      365
Ile Ser Cys Cys Arg Pro Ala Ser Asn Trp Gly Pro Tyr Leu Glu Gln
      370      375      380
His Arg Gly Glu Arg Tyr Lys Asp Met Val Asp Pro Lys Lys Glu Ala
      385      390      395      400
Asp His Glu Ile Pro Thr Val Ser Gly Ser Arg Lys Pro Glu *
      405      410      414

```

<210> 1043

<211> 48

<212> PRT

<213> Homo sapiens

<400> 1043

```

Met Pro Thr Leu Gly Asp Ala Leu Ile Leu Tyr Leu His Leu Val Leu
  1          5          10          15
Gly Val Ala Gly Val Leu Gln Pro Pro Gly Pro Arg Pro Ser Gln Ala
      20      25      30
Leu Gly Pro Thr Gly Asp Arg Ala Pro Gly Lys Trp Asn Arg Ser *
      35      40      45      47

```

<210> 1044

<211> 146
 <212> PRT
 <213> Homo sapiens

<400> 1044
 Met Leu Phe Ser Ser Met Thr Leu Arg Leu Ser Arg Cys Ser Cys Ser
 1 5 10 15
 Ile Leu Leu Phe Trp Ala Ser Ala Ala Cys Met Phe Pro Ser Ser Arg
 20 25 30
 Tyr Leu Trp Ser Gly Arg Ser Leu Val Ser Val Glu Gly Ser Asp Arg
 35 40 45
 Phe Ser Ser Ala Val Ser Ser Phe Ser Ser Lys Ala Asn Trp Val Lys
 50 55 60
 Pro Lys Phe Arg Ser Trp Ser Gly Gly Ile Glu Leu Gly Phe Gln Met
 65 70 75 80
 His Trp Pro Pro Gly Val Gly Pro Arg Tyr Ser Pro Ser Cys His Phe
 85 90 95
 Pro Lys Ser Arg Trp Arg Thr Arg Pro Leu Arg Leu Ser Thr Ala Pro
 100 105 110
 Cys Thr Ser Trp Thr Leu Glu Leu Gln Tyr Leu Ala Leu Gln Lys Val
 115 120 125
 Ile Leu Gln Trp Gln Glu Leu Ser Cys Val Phe Arg Met Ser Thr Ser
 130 135 140
 Pro *
 145

<210> 1045
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1045
 Met Ala Leu Phe Cys Leu Val Tyr Gln Ile Ile Phe Leu Ile Gln His
 1 5 10 15
 Thr His Phe Ser Leu Ala Lys Leu Leu Ile Met Ala Leu Asn Thr Leu
 20 25 30
 Thr Tyr Cys Val Leu Val Gln Ser Asn Asn Thr Gln Ser Thr Leu Arg
 35 40 45
 Lys Ser Ala Ser *
 50 52

<210> 1046
 <211> 407
 <212> PRT
 <213> Homo sapiens

<400> 1046
 Met Gly Pro Ser Thr Pro Leu Leu Ile Leu Phe Leu Leu Ser Trp Ser
 1 5 10 15
 Gly Pro Leu Gln Gly Gln Gln His His Leu Val Glu Tyr Met Glu Arg
 20 25 30
 Arg Leu Ala Ala Leu Glu Glu Arg Leu Ala Gln Cys Gln Asp Gln Ser

35 40 45
 Ser Arg His Ala Ala Glu Leu Arg Asp Phe Lys Asn Lys Met Leu Pro
 50 55 60
 Leu Leu Glu Val Ala Glu Lys Glu Arg Glu Ala Leu Arg Thr Glu Ala
 65 70 75 80
 Asp Thr Ile Ser Gly Arg Val Asp Arg Leu Glu Arg Glu Val Asp Tyr
 85 90 95
 Leu Glu Thr Gln Asn Pro Ala Leu Pro Cys Val Glu Phe Asp Glu Lys
 100 105 110
 Val Thr Gly Gly Pro Gly Thr Lys Gly Lys Gly Arg Arg Asn Glu Lys
 115 120 125
 Tyr Asp Met Val Thr Asp Cys Gly Tyr Thr Ile Ser Gln Val Arg Ser
 130 135 140
 Met Lys Ile Leu Lys Arg Phe Gly Gly Pro Ala Gly Leu Trp Thr Lys
 145 150 155 160
 Asp Pro Leu Gly Gln Thr Glu Lys Ile Tyr Val Leu Asp Gly Thr Gln
 165 170 175
 Asn Asp Thr Ala Phe Val Phe Pro Arg Leu Arg Asp Phe Thr Leu Ala
 180 185 190
 Met Ala Ala Arg Lys Ala Ser Arg Val Arg Val Pro Phe Pro Trp Val
 195 200 205
 Gly Thr Gly Gln Leu Val Tyr Gly Gly Phe Leu Tyr Phe Ala Arg Arg
 210 215 220
 Pro Pro Gly Arg Pro Gly Gly Gly Glu Met Glu Asn Thr Leu Gln
 225 230 235 240
 Leu Ile Lys Phe His Leu Ala Asn Arg Thr Val Val Asp Ser Ser Val
 245 250 255
 Phe Pro Ala Glu Gly Leu Ile Pro Pro Tyr Gly Leu Thr Ala Asp Thr
 260 265 270
 Tyr Ile Asp Leu Ala Ala Asp Glu Gly Leu Trp Ala Val Tyr Ala
 275 280 285
 Thr Arg Glu Asp Asp Arg His Leu Cys Leu Ala Lys Leu Asp Pro Gln
 290 295 300
 Thr Leu Asp Thr Glu Gln Gln Trp Asp Thr Pro Cys Pro Arg Glu Asn
 305 310 315 320
 Ala Glu Ala Ala Phe Val Ile Cys Gly Thr Leu Tyr Val Val Tyr Asn
 325 330 335
 Thr Arg Pro Ala Ser Arg Ala Arg Ile Gln Cys Ser Phe Asp Ala Ser
 340 345 350
 Gly Thr Leu Thr Pro Glu Arg Ala Ala Leu Pro Tyr Phe Pro Arg Arg
 355 360 365
 Tyr Gly Ala His Ala Ser Leu Arg Tyr Asn Pro Arg Glu Arg Gln Leu
 370 375 380
 Tyr Ala Trp Asp Asp Gly Tyr Gln Ile Val Tyr Lys Leu Glu Met Arg
 385 390 395 400
 Lys Lys Glu Glu Glu Val *
 405 406

<210> 1047

<211> 268

<212> PRT

<213> Homo sapiens

<400> 1047

Met Ile Gln Lys Ile Leu Phe Lys Asp Leu Phe Arg Phe Leu Leu Val
 1 5 10 15

```

Tyr Leu Leu Phe Met Ile Gly Tyr Ala Ser Ala Leu Val Ser Leu Leu
      20      25      30
Asn Pro Cys Ala Asn Met Lys Val Cys Asn Glu Asp Gln Thr Asn Cys
      35      40      45
Thr Val Pro Thr Tyr Pro Ser Cys Arg Asp Ser Glu Thr Phe Ser Thr
      50      55      60
Phe Leu Leu Asp Leu Phe Lys Leu Thr Ile Gly Met Gly Asp Leu Glu
      65      70      75      80
Met Leu Ser Ser Thr Lys Tyr Pro Val Val Phe Ile Ile Leu Leu Val
      85      90      95
Thr Tyr Ile Ile Leu Thr Phe Val Leu Leu Asn Met Leu Ile Ala
      100      105      110
Leu Met Gly Glu Thr Val Gly Gln Val Ser Lys Glu Ser Lys His Ile
      115      120      125
Trp Lys Leu Gln Trp Ala Thr Thr Ile Leu Asp Ile Glu Arg Ser Phe
      130      135      140
Pro Val Phe Leu Arg Lys Ala Phe Arg Ser Gly Glu Met Val Thr Val
      145      150      155      160
Gly Lys Ser Ser Asp Gly Thr Pro Asp Arg Arg Trp Cys Phe Arg Val
      165      170      175
Asp Glu Val Asn Trp Ser His Trp Asn Gln Asn Leu Gly Ile Ile Asn
      180      185      190
Glu Asp Pro Gly Lys Asn Glu Thr Tyr Gln Tyr Tyr Gly Phe Ser His
      195      200      205
Thr Val Gly Arg Leu Arg Arg Asp Arg Trp Ser Ser Val Val Pro Arg
      210      215      220
Val Val Glu Leu Asn Lys Asn Ser Asn Pro Asp Glu Val Val Val Pro
      225      230      235      240
Leu Asp Ser Met Gly Asn Pro Arg Cys Asp Gly His Gln Gln Gly Tyr
      245      250      255
Pro Arg Lys Trp Arg Thr Asp Asp Ala Pro Leu *
      260      265      267

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<210> 1048
<211> 59
<212> PRT
<213> Homo sapiens

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<400> 1048
Met Trp Ser His Phe Trp Lys Val Ser Thr Gln Gly Leu Phe Val Ala
  1      5      10      15
Met Phe Trp Pro Leu Ile Pro Gln Phe Val Cys Asn Cys Leu Phe Tyr
      20      25      30
Trp Ala Leu Tyr Phe Asn Pro Ile Ile Asn Ile Asp Leu Val Val Lys
      35      40      45
Glu Leu Arg Arg Leu Glu Thr Gln Val Leu *
      50      55      58

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<210> 1049
<211> 77
<212> PRT
<213> Homo sapiens

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<400> 1049
 Met Arg Cys Arg Cys Cys Leu Cys Ser Ser Cys Phe Trp Gly Leu Trp
 1 5 10 15
 Asp Pro Cys Pro Lys Ser Val Trp Ser Pro Trp Ser Ser Ser Ser Leu
 20 25 30
 Gly Ala Phe Ser Val Gly Ser Glu Leu Ala Ser Ala Ala Ser Ser Leu
 35 40 45
 Ser Pro Pro Ser Cys Ser Pro Arg Thr Ala Pro Arg Ser Thr Ala Lys
 50 55 60
 Leu Cys Leu Arg Trp Ser Arg Pro Gly Asn Cys Gly *
 65 70 75 76

<210> 1050
 <211> 474
 <212> PRT
 <213> Homo sapiens

<400> 1050
 Met Arg Ala Leu Val Leu Leu Gly Cys Leu Leu Ala Ser Leu Leu Phe
 1 5 10 15
 Ser Gly Gln Ala Glu Glu Thr Glu Asp Ala Asn Glu Glu Ala Pro Leu
 20 25 30
 Arg Asp Arg Ser His Ile Glu Lys Thr Leu Met Leu Asn Glu Asp Lys
 35 40 45
 Pro Ser Asp Asp Tyr Ser Ala Val Leu Gln Arg Leu Arg Lys Ile Tyr
 50 55 60
 His Ser Ser Ile Lys Pro Leu Glu Gln Ser Tyr Lys Tyr Asn Glu Leu
 65 70 75 80
 Arg Gln His Glu Ile Thr Asp Gly Glu Ile Thr Ser Lys Pro Met Val
 85 90 95
 Leu Phe Leu Gly Pro Trp Ser Val Gly Lys Ser Thr Met Ile Asn Tyr
 100 105 110
 Leu Leu Gly Leu Glu Asn Thr Arg Tyr Gln Leu Tyr Thr Gly Ala Glu
 115 120 125
 Pro Thr Thr Ser Glu Phe Thr Val Leu Met His Gly Pro Lys Leu Lys
 130 135 140
 Thr Ile Glu Gly Ile Val Met Ala Ala Asp Ser Ala Arg Ser Phe Ser
 145 150 155 160
 Pro Leu Glu Lys Phe Gly Gln Asn Phe Leu Glu Lys Leu Ile Gly Ile
 165 170 175
 Glu Val Pro His Lys Leu Leu Glu Arg Val Thr Phe Val Asp Thr Pro
 180 185 190
 Gly Ile Ile Glu Asn Arg Lys Gln Gln Glu Arg Gly Tyr Pro Phe Asn
 195 200 205
 Asp Val Cys Gln Trp Phe Ile Asp Arg Ala Asp Leu Ile Phe Val Val
 210 215 220
 Phe Asp Pro Thr Lys Leu Asp Val Gly Leu Glu Leu Glu Met Leu Phe
 225 230 235 240
 Arg Gln Leu Lys Gly Arg Glu Ser Gln Ile Arg Ile Ile Leu Asn Lys
 245 250 255
 Ala Asp Asn Leu Ala Thr Gln Met Leu Met Arg Val Tyr Gly Ala Leu
 260 265 270
 Phe Trp Ser Leu Ala Pro Leu Ile Asn Val Thr Glu Pro Pro Arg Val
 275 280 285
 Tyr Val Ser Ser Phe Trp Pro Gln Glu Tyr Lys Pro Asp Thr His Gln
 290 295 300

Glu Leu Phe Leu Gln Glu Glu Ile Ser Leu Leu Glu Asp Leu Asn Gln
 305 310 315 320
 Val Ile Glu Asn Arg Leu Glu Asn Lys Ile Ala Phe Ile Arg Gln His
 325 330 335
 Ala Ile Arg Val Arg Ile His Ala Leu Leu Val Asp Arg Tyr Leu Gln
 340 345 350
 Thr Tyr Lys Asp Lys Met Thr Phe Phe Ser Asp Gly Glu Leu Val Phe
 355 360 365
 Lys Asp Ile Val Glu Asp Pro Asp Lys Phe Tyr Ile Phe Lys Thr Ile
 370 375 380
 Leu Ala Lys Thr Asn Val Ser Lys Phe Asp Leu Pro Asn Arg Glu Ala
 385 390 395 400
 Tyr Lys Asp Phe Phe Gly Ile Asn Pro Ile Ser Ser Phe Lys Leu Leu
 405 410 415
 Ser Gln Gln Cys Ser Tyr Met Gly Gly Cys Phe Leu Glu Lys Ile Glu
 420 425 430
 Arg Ala Ile Thr Gln Glu Leu Pro Gly Leu Leu Gly Ser Leu Gly Leu
 435 440 445
 Gly Lys Asn Pro Gly Ala Leu Asn Cys Asp Lys Thr Gly Cys Ser Glu
 450 455 460
 Thr Pro Lys Asn Arg Tyr Arg Lys His *
 465 470 473

<210> 1051
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1051
 Met Gln Arg Pro Ser Ala Trp Trp Ile Leu Phe Cys Ser Leu Asn Leu
 1 5 10 15
 Leu Ala Arg Phe Ile Gln Cys Leu Gln Ile Val Asn Lys Glu Val His
 20 25 30
 Phe Phe Arg Tyr Ile Lys Tyr Tyr Lys Phe Trp Glu Gly Arg *
 35 40 45 46

<210> 1052
 <211> 233
 <212> PRT
 <213> Homo sapiens

<400> 1052
 Met Ala Trp Thr Pro Leu Trp Leu Thr Leu Leu Thr Leu Cys Ile Gly
 1 5 10 15
 Ser Val Val Ser Ser Glu Leu Thr Gln Asp Pro Thr Val Ser Val Ala
 20 25 30
 Leu Gly Gln Thr Leu Arg Ile Lys Cys Gln Gly Asp Thr Ile Arg Ser
 35 40 45
 Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Ile Leu
 50 55 60
 Val Ile Tyr Gly Gln Asn Asn Arg Pro Ser Gly Ile Pro Gly Arg Phe
 65 70 75 80
 Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu

```

      85      90      95
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Cys Ser Tyr Ala Gly Arg
      100      105      110
Thr Thr Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
      115      120      125
Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu
      130      135      140
Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr
      145      150      155      160
Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val Lys
      165      170      175
Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys Tyr
      180      185      190
Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His
      195      200      205
Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu Lys
      210      215      220
Thr Val Ala Pro Thr Glu Cys Ser *
      225      230      232

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<210> 1053
 <211> 147
 <212> PRT
 <213> Homo sapiens

```

      <400> 1053
Met Gly Ala Asp Arg Gly Pro His Val Val Leu Trp Thr Leu Ile Cys
  1      5      10      15
Leu Pro Val Val Phe Ile Leu Ser Phe Val Val Ser Phe Tyr Tyr Gly
      20      25      30
Thr Ile Thr Trp Tyr Asn Ile Phe Leu Val Tyr Asn Glu Glu Arg Thr
      35      40      45
Phe Trp His Lys Ile Ser Tyr Cys Pro Cys Leu Val Leu Phe Tyr Pro
      50      55      60
Val Leu Ile Met Ala Met Ala Ser Ser Leu Gly Leu Tyr Ala Ala Val
      65      70      75      80
Val Gln Leu Ser Trp Ser Trp Glu Ala Trp Trp Gln Ala Ala Arg Asp
      85      90      95
Met Glu Lys Gly Phe Cys Gly Trp Leu Cys Ser Lys Leu Gly Leu Glu
      100      105      110
Asp Cys Ser Pro Tyr Ser Ile Val Glu Leu Leu Glu Ser Asp Asn Ile
      115      120      125
Ser Ser Thr Leu Ser Asn Lys Asp Pro Ile Gln Glu Val Glu Thr Ser
      130      135      140
Thr Val *
      145      146

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<210> 1054
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 1054


```

Met Tyr Val Thr Leu Val Phe Arg Val Lys Gly Ser Arg Leu Val Lys
 1          5          10          15
Pro Ser Leu Cys Leu Ala Leu Leu Cys Pro Ala Phe Leu Val Gly Val
          20          25          30
Val Arg Val Ala Glu Tyr Arg Asn His Trp Ser Asp Val Leu Ala Gly
          35          40          45
Phe Leu Thr Gly Ala Ala Ile Ala Thr Phe Leu Val Thr Cys Val Val
          50          55          60
His Asn Phe Gln Ser Arg Pro Pro Ser Gly Arg Arg Leu Ser Pro Trp
65          70          75          80
Glu Asp Leu Gly Gln Ala Pro Thr Met Asp Ser Pro Leu Glu Lys Asn
          85          90          95
Pro Arg Ser Ala Gly Arg Ile Arg His Arg His Gly Ser Pro His Pro
          100          105          110
Ser Arg Arg Thr Ala Pro Ala Val Ala Thr *
          115          120          122

```

<210> 1055
 <211> 122
 <212> PRT
 <213> Homo sapiens

```

<400> 1055
Met Leu Thr Cys Leu Phe Ser Phe Gln Gly Cys Trp Arg Ala Arg Gly
 1          5          10          15
Trp Gln Arg Leu Cys Glu Gly Arg Arg Gly Trp Pro Gly Val Gly Gln
          20          25          30
Arg Thr Leu Lys Val Ser Glu Pro Ala Pro Leu Arg Val Gly Arg Ala
          35          40          45
Leu Pro Gln Ala Leu Leu Gly Ala Arg Pro His Cys Val Phe Pro Gly
          50          55          60
Gly Glu Val Leu Gly Val Glu Ala Ala Phe Gly Ser Ser Phe Ile Leu
65          70          75          80
Ser Thr Phe Phe Leu His Gln Pro Leu Phe Phe Pro Gly Pro Lys Leu
          85          90          95
Arg Ala Thr Gln Tyr Leu Ile Ser Ser Asp Pro Thr His Leu Pro Ala
          100          105          110
Gly Arg Gly Pro Asn Ser Val Ser Met *
          115          120 121

```

<210> 1056
 <211> 51
 <212> PRT
 <213> Homo sapiens

```

<400> 1056
Met Pro Thr Lys Leu Ser Ala Val Gly Ile Leu Val Gly Thr Leu Val
 1          5          10          15
Ala Ile Gly Ile Phe Leu Ile Leu Ile Phe Thr His Trp Thr Met Ser
          20          25          30
Arg Lys Lys Asp Pro Asp Gln Pro Ala Asp Ser Val Pro Leu Lys Ala
          35          40          45
Thr Val *

```

50

<210> 1057
 <211> 260
 <212> PRT
 <213> Homo sapiens

<400> 1057
 Met Glu Ala Pro Ala Gln Leu Leu Phe Leu Leu Leu Leu Trp Leu Pro
 1 5 10 15
 Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser
 20 25 30
 Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser
 35 40 45
 Val Gly Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
 50 55 60
 Arg Pro Leu Ile Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala
 65 70 75 80
 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
 85 90 95
 Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln His Arg Asp
 100 105 110
 Asn Trp Pro Pro Gly Ala Thr Phe Gly Gly Gly Thr Lys Val Glu Ile
 115 120 125
 Lys His Thr Thr Gly Glu Ile Val Leu Thr Gln Ala Pro Gly Thr Leu
 130 135 140
 Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln
 145 150 155 160
 Thr Ile Gly Ser Thr Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
 165 170 175
 Ala Pro Lys Leu Leu Ile Tyr Trp Phe Ile Gln Phe Ala Lys Arg Gly
 180 185 190
 Pro Ile Lys Val Gln Cys His Arg Val Arg Gly Gln Thr Ser Leu Ser
 195 200 205
 Pro Ser Ala Asp Trp Ser Leu Lys Ile Leu Gln Cys Ile Ser Val Thr
 210 215 220
 Asn Met Gly Ala His Pro Thr Leu Leu Ala Glu Gly Pro Arg Trp Arg
 225 230 235 240
 Ser Asn Glu Leu Trp Leu His His Leu Ser Ser Ser Ser Arg His Leu
 245 250 255
 Met Ser Ser *
 259

<210> 1058
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1058
 Met Lys Gly Leu Phe Cys Leu Trp Pro Leu Val Arg Ser Val Ser Ser
 1 5 10 15
 Leu Met Thr Ser Ser Thr Ser Cys Pro Ser Pro Pro Thr Leu Pro Pro
 20 25 30

Trp Arg Pro Cys Leu Pro Arg Leu Arg Met Arg Val Leu Val Leu Leu
 35 40 45
 Ile Trp Ser *
 50 51

<210> 1059
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 1059
 Met Gly Arg Gly Ser Glu Leu Pro Val Cys Leu Ala Phe Leu Val Cys
 1 5 10 15
 Leu Met Ala Ala Leu Gly Cys Cys Glu Val Leu Ser Thr Val His Pro
 20 25 30
 Glu Glu Thr Val Leu Arg Ala Pro Pro Thr Asn Phe Gln Arg Cys Gln
 35 40 45
 Leu Gln Gln Gly Ser Ala Leu Val Arg Glu Thr Ala Trp Gly Val Gly
 50 55 60
 Arg Gly Arg Pro Ser Glu Arg Trp His Gly Glu Leu Ala Gly Gly Gly
 65 70 75 80
 Ser Arg Arg Asp Gly Met Glu Gly Leu Gly Pro Val Leu Leu Gly Ala
 85 90 95 96
 *

<210> 1060
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 1060
 Met Asn Lys His Phe Leu Phe Leu Phe Leu Tyr Cys Leu Ile Ala
 1 5 10 15
 Ala Val Thr Ser Leu Gln Cys Ile Thr Cys His Leu Arg Thr Arg Thr
 20 25 30
 Asp Arg Cys Arg Arg Gly Phe Gly Val Cys Thr Ala Gln Lys Gly Glu
 35 40 45
 Ala Cys Met Leu Leu Arg Ile Tyr Gln Arg Asn Thr Leu Gln Ile Ser
 50 55 60
 Tyr Met Val Cys Gln Lys Phe Cys Arg Asp Met Thr Phe Asp Leu Arg
 65 70 75 80
 Asn Arg Thr Tyr Val His Thr Cys Cys Asn Tyr Asn Tyr Cys Asn Phe
 85 90 95
 Lys Leu *
 98

<210> 1061
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 1061

```

Met Asn Val Val Ser Leu Val Ile Leu Phe Trp Ala Ile Tyr Cys Val
 1              5              10              15
Thr Ile Cys Met Asp Leu Tyr Leu Lys His Phe Cys Lys Lys Phe Phe
      20              25              30
Lys Val Phe Phe Lys Cys Val Ile Ile Cys Ala Phe Lys Ser Ile Leu
      35              40              45
His Phe Ser Leu Ile Cys Thr Phe Lys Lys Ile Phe Phe Phe Phe *
 50              55              60              63

```

<210> 1062

<211> 149

<212> PRT

<213> Homo sapiens

<400> 1062

```

Met Tyr Leu Ser Asn Thr Thr Val Thr Ile Leu Ala Asn Leu Val Pro
 1              5              10              15
Phe Thr Leu Thr Leu Ile Ser Phe Leu Leu Leu Ile Cys Ser Leu Cys
      20              25              30
Lys His Leu Lys Lys Met Gln Leu His Gly Lys Gly Ser Gln Asp Pro
      35              40              45
Ser Met Lys Val His Ile Lys Ala Leu Gln Thr Val Thr Ser Phe Leu
      50              55              60
Leu Leu Cys Ala Ile Tyr Phe Leu Ser Met Ile Ile Ser Val Cys Asn
      65              70              75              80
Phe Gly Arg Leu Glu Lys Gln Pro Val Phe Met Phe Cys Gln Ala Ile
      85              90              95
Ile Phe Ser Tyr Pro Ser Thr His Pro Phe Ile Leu Ile Leu Gly Asn
      100              105              110
Lys Lys Leu Lys Gln Ile Phe Leu Ser Val Leu Arg His Val Arg Tyr
      115              120              125
Trp Val Lys Asp Arg Ser Leu Arg Leu His Arg Phe Thr Arg Gly Ala
      130              135              140
Leu Cys Val Phe *
145              148

```

<210> 1063

<211> 63

<212> PRT

<213> Homo sapiens

<400> 1063

```

Met His Gln Leu Phe Gly Leu Phe Val Thr Leu Met Phe Ala Ser Val
 1              5              10              15
Gly Gly Gly Leu Gly Gly Ile Ile Leu Val Leu Cys Leu Leu Asp Pro
      20              25              30
Cys Ala Leu Trp His Trp Val Ala Pro Ser Ser Met Val Gly Gly Arg
      35              40              45
Glu Ala Ser Gln Ile Leu Pro Tyr His His Gln Gly Ser Cys *
      50              55              60              62

```

<210> 1064
 <211> 92
 <212> PRT
 <213> Homo sapiens

<400> 1064
 Met Met Leu Met Ser Leu Gly Gly Leu Leu Gly Pro Pro Leu Ser Gly
 1 5 10 15
 Phe Leu Arg Asp Glu Thr Gly Asp Phe Thr Ala Ser Phe Leu Leu Ser
 20 25 30
 Gly Ser Leu Ile Leu Ser Gly Ser Phe Ile Tyr Ile Gly Leu Pro Arg
 35 40 45
 Ala Leu Pro Ser Cys Gly Pro Ala Ser Pro Pro Ala Thr Pro Pro Pro
 50 55 60
 Glu Thr Gly Glu Leu Leu Pro Ala Pro Gln Ala Val Leu Leu Ser Pro
 65 70 75 80
 Gly Gly Pro Gly Ser Thr Leu Asp Thr Thr Cys *
 85 90 91

<210> 1065
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 1065
 Met Phe Leu Glu His Ala Ile His Cys Ser Leu Leu Phe Leu Ser Gln
 1 5 10 15
 Leu Pro Leu Leu Pro Pro Leu Val Phe Leu Leu Leu Ser His Leu Leu
 20 25 30
 Ser Glu Val Pro Leu Ile Gln Gln Pro Pro Ser Leu Ser Pro Tyr Pro
 35 40 45
 Asp Leu Leu Ser Pro Phe Ser Val Thr Arg Leu Pro Ser Asn Ile Leu
 50 55 60
 Cys Asn *
 65 66

<210> 1066
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 1066
 Met Gly Gln Val Pro Cys Cys Trp Ala Trp Trp Ser Leu Leu Gln Gly
 1 5 10 15
 Arg Gly Ser Trp Cys Glu His Lys Glu Leu Arg Gly Trp Arg Arg Pro
 20 25 30
 Gly Pro Gly Ala Cys Arg Arg Thr Pro Ala Arg Gly Gln Ala Gly Pro
 35 40 45
 Gly Ala Cys Arg Arg Thr Pro Ala Arg Gly Gln Ala Gly Pro Asp Ser

50 55 60
 Leu Ala Gly Trp Asp Leu Thr Gly Ala Pro Gly Ser Leu Gly
 65 70 75 78

<210> 1067
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 1067
 Met Tyr Phe Gly Ala Tyr Ala Phe Thr Val Ala Pro Arg Leu Ala Ile
 1 5 10 15
 Leu Gln Val Val Asn Val Ile Ser Tyr Lys Asp Ile Arg His Phe Tyr
 20 25 30
 Leu Arg His Trp Arg Asn Glu Arg Asn Cys Ile Cys His Val Asp Gly
 35 40 45
 Ala Leu Ile Lys Glu Gln *
 50 54

<210> 1068
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1068
 Met His Val Cys Met Pro Leu Cys Leu Phe Leu Leu Ser Phe Ser Val
 1 5 10 15
 Ser Pro Asp Pro Arg Leu Leu Arg Met Glu Arg Leu Phe Arg Gly Cys
 20 25 30
 Ala Gln Asp Cys Pro Phe Leu Ala Leu His Gln Gly Glu Leu Trp *
 35 40 45 47

<210> 1069
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 1069
 Met Ser Asn Leu Gln Phe Ile Phe Lys Asp Phe Gly Ile Leu Ile Lys
 1 5 10 15
 Phe Trp Tyr Leu His Ile Lys Phe Gly Phe Tyr Ile Thr Ser Cys Leu
 20 25 30
 Leu Cys Phe Pro Pro Ser Phe Met Leu Phe Phe Gly Phe Trp Pro His
 35 40 45
 Asp Tyr Asn Leu Arg Phe Cys Ile His Ile Thr Phe Cys His Phe *
 50 55 60 63

<210> 1070

<211> 73
 <212> PRT
 <213> Homo sapiens

<400> 1070
 Met Pro Ser Ile Arg Leu Gly Leu Ser His Leu Phe Leu Thr Ala Gly
 1 5 10 15
 Ile Tyr Cys Leu Leu Leu Cys Ala Arg Cys Cys Ala Leu Gly Arg Gly
 20 25 30
 Thr Ala Trp Ala Ala Cys Pro Gly Gly Ala Cys Gly Leu Met Gly Glu
 35 40 45
 Ala Asp Pro Ser Pro Pro His Cys Gln Gln Gly Gln Gly Lys Ser Thr
 50 55 60
 His Arg Gly Leu Ile Pro Tyr Val *
 65 70 72

<210> 1071
 <211> 152
 <212> PRT
 <213> Homo sapiens

<400> 1071
 Met Phe Trp Thr Met Ile Ile Leu Leu Gln Val Leu Ile Pro Ile Ser
 1 5 10 15
 Leu Tyr Val Ser Ile Glu Ile Val Lys Leu Gly Gln Ile Tyr Phe Ile
 20 25 30
 Gln Ser Asp Val Asp Phe Tyr Asn Glu Lys Met Asp Ser Ile Val Gln
 35 40 45
 Cys Arg Ala Leu Asn Ile Ala Glu Asp Leu Gly Gln Ile Gln Tyr Leu
 50 55 60
 Phe Ser Asp Lys Thr Gly Thr Leu Thr Glu Asn Lys Met Val Phe Arg
 65 70 75 80
 Arg Trp Ser Gly Gly Arg Phe Asp Tyr Cys Pro Gly Glu Lys Ala Arg
 85 90 95
 Arg Val Glu Ser Phe Gln Glu Ala Ala Phe Glu Glu Glu His Phe Leu
 100 105 110
 Thr Thr Gly Arg Gly Phe Leu Thr His Met Ala Asn Pro Arg Ala Pro
 115 120 125
 Pro Leu Ala Asp Thr Phe Lys Met Gly Ala Ser Gly Arg Leu Ser Pro
 130 135 140
 Pro Ser Leu Thr Ala Arg Gly Ala
 145 150 152

<210> 1072
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 1072
 Met Thr Ala Gly Val Leu Trp Gly Leu Phe Gly Val Leu Gly Phe Thr
 1 5 10 15
 Gly Val Ala Leu Leu Leu Tyr Ala Leu Phe His Lys Ile Ser Gly Glu

```

                20                25                30
Ser Ser Ala Thr Asn Glu Pro Arg Gly Ala Ser Arg Pro Asn Pro Gln
      35                40                45
Glu Phe Thr Tyr Ser Ser Pro Thr Pro Asp Met Glu Glu Leu Gln Pro
      50                55                60
Val Tyr Val Asn Val Gly Ser Val Asp Val Asp Val Val Tyr Ser Gln
      65                70                75                80
Val Trp Ser Met Gln Gln Pro Glu Ser Ser Ala Asn Ile Arg Thr Leu
      85                90                95
Leu Glu Asn Lys Asp Ser Gln Val Ile Tyr Ser Ser Val Lys Lys Ser
      100                105                110                112
*
```

```

<210> 1073
<211> 52
<212> PRT
<213> Homo sapiens
```

```

<400> 1073
Met Thr Leu Cys Cys Pro Trp Ala Thr Met His Pro Ser Thr Val Leu
  1          5          10          15
Arg Met Val Trp Ser Leu Arg Ser Arg Ala Arg Arg Trp Gly Ser Val
      20          25          30
Arg Thr Gly Leu Ser Trp Ser Ser Ser Asp Ser Arg Ile Thr Ser
      35          40          45
Leu Ser Leu *
      50  51
```

```

<210> 1074
<211> 78
<212> PRT
<213> Homo sapiens
```

```

<400> 1074
Met Phe Ser Arg Leu Tyr Ala Val Cys Met Leu Tyr Met Trp Gly Phe
  1          5          10          15
Val Asp Lys Met Cys Val Trp Ser Val Met Gln Val Cys Tyr Cys Leu
      20          25          30
Val Phe Val Tyr Val Phe Leu Cys Met Val Cys Arg Val Arg Ala His
      35          40          45
Asp His Ile Gln Ile Leu Asp Pro Tyr Ser Arg Leu Val Leu Ser Arg
      50          55          60
Leu Pro Arg Leu Glu Thr Gly Lys Asp Ser Ser Ser Leu *
      65          70          75          77
```

```

<210> 1075
<211> 253
<212> PRT
<213> Homo sapiens
```


<400> 1075

```

Met Ser Ser Ser Pro Gly Leu Leu Phe Ser Ser Leu Ser His Leu Leu
 1          5          10          15
Leu Asn Ser Ser Thr Leu Ala Leu Leu Thr His Arg Leu Ser Gln Met
          20          25          30
Thr Cys Leu Gln Ser Leu Arg Leu Asn Arg Asn Ser Ile Gly Asp Val
          35          40          45
Gly Cys Cys His Leu Ser Glu Ala Leu Arg Ala Ala Thr Ser Leu Glu
          50          55          60
Glu Leu Asp Leu Ser His Asn Gln Ile Gly Asp Ala Gly Asp Gln His
65          70          75          80
Leu Ala Thr Ile Leu Pro Gly Leu Pro Glu Leu Arg Lys Ile Asp Leu
          85          90          95
Ser Gly Asn Ser Ile Ser Ser Ala Gly Gly Val Gln Leu Ala Glu Ser
          100          105          110
Leu Val Leu Cys Arg Arg Leu Glu Glu Leu Met Leu Gly Cys Asn Ala
          115          120          125
Leu Gly Asp Pro Thr Ala Leu Gly Leu Ala Gln Glu Leu Pro Gln His
          130          135          140
Leu Arg Val Leu His Leu Pro Phe Ser His Leu Gly Pro Asp Gly Ala
145          150          155          160
Leu Ser Leu Ala Gln Asp Leu Asp Gly Ser Pro His Leu Glu Glu Ile
          165          170          175
Ser Leu Ala Glu Asn Asn Leu Ala Gly Gly Val Leu Arg Phe Cys Met
          180          185          190
Glu Leu Pro Leu Leu Arg Gln Ile Glu Leu Ser Trp Asn Leu Leu Gly
          195          200          205
Asp Glu Ala Ala Ala Glu Leu Ala Gln Val Leu Pro Gln Met Gly Arg
          210          215          220
Leu Lys Arg Val Glu Tyr Glu Gly Pro Gly Glu Glu Trp Asp Gly Leu
225          230          235          240
Lys Gly Asp Leu His Pro Gly Asn Thr Lys Arg Pro Leu
          245          250          253

```

<210> 1076

<211> 64

<212> PRT

<213> Homo sapiens

<400> 1076

```

Met Ser Asp Ile Ser Pro Leu Leu Tyr Glu Ile Trp Leu Gly Asp Thr
 1          5          10          15
Ser Ala Gly Phe Phe Thr Phe Cys Val Thr Val Leu His Val Leu Leu
          20          25          30
Leu Leu Ser Ser Val Leu His Phe Leu Cys Pro Arg Asp Thr Ser Val
          35          40          45
Ile Ser Pro Phe Ile Pro Pro Leu Thr Pro Pro Gln Ser Arg Leu *
          50          55          60          63

```

<210> 1077

<211> 147

<212> PRT

<213> Homo sapiens

<400> 1077
 Met Met Lys Ser Leu Arg Val Leu Leu Val Ile Leu Trp Leu Gln Leu
 1 5 10 15
 Ser Trp Val Trp Ser Gln Gln Lys Glu Val Glu Gln Asn Ser Gly Pro
 20 25 30
 Leu Ser Val Pro Glu Gly Ala Ile Ala Ser Leu Asn Cys Thr Tyr Ser
 35 40 45
 Asp Arg Gly Ser Gln Ser Phe Trp Tyr Arg Gln Tyr Ser Gly Lys
 50 55 60
 Ser Pro Glu Leu Ile Met Ser Ile Tyr Ser Asn Gly Asp Lys Glu Asp
 65 70 75 80
 Gly Arg Phe Thr Ala Gln Leu Asn Lys Ala Ser Gln Tyr Val Ser Leu
 85 90 95
 Leu Ile Arg Asp Ser Gln Pro Ser Asp Ser Ala Thr Tyr Leu Cys Ala
 100 105 110
 Asp Tyr Ser Gly Asn Thr Pro Leu Val Phe Gly Lys Gly Thr Arg Leu
 115 120 125
 Ser Val Ile Ala Asn Ile Gln Asn Pro Asp Pro Ala Leu Tyr Gln Leu
 130 135 140
 Arg Asp Ser
 145 147

<210> 1078
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 1078
 Met Phe Gln Gly Ser Asn Ile Leu Phe Leu Leu Pro Ser Pro Gly Ile
 1 5 10 15
 Thr Ser Ile Asn Asp Arg Thr Tyr Phe Leu Phe Val Met Arg Ser Asn
 20 25 30
 Trp Leu Phe Leu Leu Thr Cys Leu Ile Ala Phe Gln Lys Asn Asn Lys
 35 40 45
 Ser Leu Lys Leu Leu Lys *
 50 54

<210> 1079
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 1079
 Met Ile Pro Ala Phe Gly Ile Phe Arg Leu Leu Ile Ile Ile Leu Ile
 1 5 10 15
 Ile Val Leu Asp Met Gly Phe Ala Leu Tyr Arg Arg Phe Phe Val Pro
 20 25 30
 Glu Asp Gly Ser Pro Val Ser Phe Ala Ala His Ile Ala Gly Gly Phe
 35 40 45
 Ala Gly Met Ser Ile Gly Tyr Thr Val Phe Ser Cys Phe Asp Lys Ala
 50 55 60

Leu Met Lys Asp Pro Arg Phe Trp Ile Ala Ile Ala Ala Tyr Leu Ala
 65 70 75 80
 Cys Val Leu Phe Ala Val Phe Phe Asn Ile Phe Leu Ser Pro Ala Asn
 85 90 95 96

*

<210> 1080
 <211> 134
 <212> PRT
 <213> Homo sapiens

<400> 1080
 Met Leu Ser Ile Leu Leu Ala Thr Leu Thr Leu Ser Leu Lys Glu Lys
 1 5 10 15
 Arg Gly Glu Arg Ser Ile His Gln Pro Glu Pro Ser Glu Lys Ser Val
 20 25 30
 Cys Leu Pro Val Ser Gly Ala Asp Pro Phe Arg Gly Ser Arg Gly Arg
 35 40 45
 Gly Lys Glu Ile Arg Arg Glu Lys Asp Ile Gly Leu Leu Glu His Val
 50 55 60
 Gly Gln Glu Val Pro Arg Arg Ile Cys Glu Gln Leu Pro Asp Ser Lys
 65 70 75 80
 Ala Leu Ala Arg Pro Gln Asp Gly Pro Cys Leu Leu Asp Ile Arg Lys
 85 90 95
 Pro Lys Gly Gln Asn Lys Asn Thr Cys Leu Val Gly Glu Gly Ser Leu
 100 105 110
 Arg Gly His Gln Val Gly Gln Ile Pro Leu Val Thr His Leu Trp Arg
 115 120 125
 Leu Pro Gln Lys Cys *
 130 133

<210> 1081
 <211> 185
 <212> PRT
 <213> Homo sapiens

<400> 1081
 Met Lys Ile Leu Val Ala Phe Leu Val Val Leu Thr Ile Phe Gly Ile
 1 5 10 15
 Gln Ser His Gly Tyr Glu Val Phe Asn Ile Ile Ser Pro Ser Asn Asn
 20 25 30
 Gly Gly Asn Val Gln Glu Thr Val Thr Ile Asp Asn Glu Lys Asn Thr
 35 40 45
 Ala Ile Ile Asn Ile His Ala Gly Ser Cys Ser Ser Thr Thr Ile Phe
 50 55 60
 Asp Tyr Lys His Gly Tyr Ile Ala Ser Arg Val Leu Ser Arg Arg Ala
 65 70 75 80
 Cys Phe Ile Leu Lys Met Asp His Gln Asn Ile Pro Pro Leu Asn Asn
 85 90 95
 Leu Gln Trp Tyr Ile Tyr Glu Lys Gln Ala Leu Asp Asn Met Phe Ser
 100 105 110
 Ser Lys Tyr Thr Trp Val Lys Tyr Asn Pro Leu Glu Ser Leu Ile Lys

```

      115      120      125
Asp Val Asp Trp Phe Leu Leu Gly Ser Pro Ile Glu Lys Leu Cys Lys
      130      135      140
His Ile Pro Leu Tyr Lys Gly Glu Val Val Glu Asn Thr His Asn Val
      145      150      155      160
Gly Ala Gly Gly Cys Ala Lys Ala Gly Leu Leu Gly Ile Leu Gly Ile
      165      170      175
Ser Ile Cys Ala Asp Ile His Val *
      180      184

```

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<210> 1082
<211> 285
<212> PRT
<213> Homo sapiens

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<221> misc_feature
<222> (1)...(285)
<223> Xaa = any amino acid or nothing

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      <400> 1082
Met Val Ile Ala Leu Ile Ile Phe Leu Arg Ser Pro Ala Met Ala Gly
      1      5      10      15
Gly Leu Phe Ala Ile Glu Arg Glu Phe Phe Glu Leu Gly Leu Tyr
      20      25      30
Asp Pro Gly Leu Gln Ile Trp Gly Gly Glu Asn Phe Glu Ile Ser Tyr
      35      40      45
Lys Ile Trp Gln Cys Gly Gly Lys Leu Leu Phe Xaa Pro Cys Ser Arg
      50      55      60
Val Gly His Ile Tyr Arg Leu Glu Gly Trp Gln Gly Asn Pro Pro Pro
      65      70      75      80
Ile Tyr Val Gly Ser Ser Pro Thr Leu Lys Asn Tyr Val Arg Val Val
      85      90      95
Glu Val Trp Trp Asp Glu Tyr Lys Asp Tyr Phe Tyr Ala Ser Arg Pro
      100      105      110
Glu Ser Gln Ala Leu Pro Tyr Gly Asp Ile Ser Glu Leu Lys Lys Phe
      115      120      125
Arg Glu Asp His Asn Cys Lys Ser Phe Lys Trp Phe Met Glu Glu Ile
      130      135      140
Ala Tyr Asp Ile Thr Ser His Tyr Pro Leu Pro Pro Lys Asn Val Asp
      145      150      155      160
Trp Gly Glu Ile Arg Gly Phe Glu Thr Ala Tyr Cys Ile Asp Ser Met
      165      170      175
Gly Lys Thr Asn Gly Gly Phe Val Glu Leu Gly Pro Cys His Arg Met
      180      185      190
Gly Gly Asn Gln Leu Phe Arg Ile Asn Glu Ala Asn Gln Leu Met Gln
      195      200      205
Tyr Asp Gln Cys Leu Thr Lys Gly Ala Asp Gly Ser Lys Val Met Ile
      210      215      220
Thr His Cys Asn Leu Asn Glu Phe Lys Glu Trp Gln Tyr Phe Lys Asn
      225      230      235      240
Leu His Arg Phe Thr His Ile Pro Ser Gly Lys Cys Leu Asp Arg Ser
      245      250      255
Glu Val Leu His Gln Val Phe Ile Ser Asn Cys Asp Ser Ser Lys Thr
      260      265      270
Thr Gln Lys Trp Glu Met Asn Asn Ile His Ser Val *
      275      280      284

```

<210> 1083
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 1083
 Met Phe Trp Phe Leu Asn Ile Phe Ile Leu Ile Leu Ser Lys His Ser
 1 5 10 15
 Ser Lys Ser Leu Ser Leu Gln Leu Pro Glu Val Leu Leu Leu Phe Leu
 20 25 30
 Cys Gln Phe Cys Leu Arg Leu His Pro Val Arg Gly Leu Arg Leu His
 35 40 45
 Phe Lys Ala Lys Leu Ala Asn His His Val Ile Cys Ile Gly Leu Gly
 50 55 60
 Phe Phe Leu Phe Val Ser Val Leu *
 65 70 72

<210> 1084
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1084
 Met Ile Phe Gly Thr Asp Cys Cys Ala Leu Ser Lys Tyr Met Trp Ala
 1 5 10 15
 Phe Val Phe Phe Leu Ile Lys Ala Arg Trp Arg Glu Lys Asn Pro Cys
 20 25 30
 Phe Asp Asp Ser Leu Arg Pro Glu Gln Cys Leu Leu Asp Glu Gly Ser
 35 40 45
 Leu Glu Lys Arg Tyr Ser Met *
 50 55

<210> 1085
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1085
 Met Gln Ile Phe Leu Leu Leu Tyr Ala Leu Gly Arg Phe Val Leu Leu
 1 5 10 15
 Val Thr Phe Ser Pro Leu Val Leu Ser Leu Ser Tyr Pro Val Leu Val
 20 25 30
 Ser Phe Tyr Leu Arg Tyr Pro Ser Val Leu Phe Val Phe Leu His Asn
 35 40 45
 Val Val Ser Leu Val Phe Gly Tyr Pro Leu Gln Asn Gln Gln Gly Leu
 50 55 60
 Ile His Pro *
 65 67

<210> 1086
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 1086
 Met Cys Pro Phe Met Pro Pro Pro Gly Leu Leu Arg Leu Phe Gln Ile
 1 5 10 15
 Val Phe Trp Val Glu His Pro Gly Ser Val Asn Pro Phe Glu Arg Ser
 20 25 30
 Thr Ile Ile Gly Arg Ser Ala Lys Leu Lys Lys Asp Leu Lys Ser His
 35 40 45
 Trp Glu Pro Gly Gln Gln Ala Leu Gln Gln Gly Leu Leu *
 50 55 60 61

<210> 1087
 <211> 294
 <212> PRT
 <213> Homo sapiens

<400> 1087
 Met Pro Tyr Val Thr Glu Ala Thr Arg Val Gln Leu Val Leu Pro Leu
 1 5 10 15
 Leu Val Ala Glu Ala Ala Ala Pro Ala Phe Leu Glu Ala Phe Ala
 20 25 30
 Ala Asn Val Leu Glu Pro Arg Glu His Ala Leu Leu Thr Leu Leu Leu
 35 40 45
 Val Tyr Gly Pro Arg Glu Gly Gly Arg Gly Ala Pro Asp Pro Phe Leu
 50 55 60
 Gly Val Lys Ala Ala Ala Glu Leu Glu Arg Arg Tyr Pro Gly Thr
 65 70 75 80
 Arg Leu Ala Trp Leu Ala Val Arg Ala Glu Ala Pro Ser Gln Val Arg
 85 90 95
 Leu Met Asp Val Val Ser Lys Lys His Pro Val Asp Thr Leu Phe Phe
 100 105 110
 Leu Thr Thr Val Trp Thr Arg Pro Gly Pro Glu Val Leu Asn Arg Cys
 115 120 125
 Arg Met Asn Ala Ile Ser Gly Trp Gln Ala Phe Phe Pro Val His Phe
 130 135 140
 Gln Glu Phe Asn Pro Ala Leu Ser Pro Gln Arg Ser Pro Pro Gly Pro
 145 150 155 160
 Pro Gly Ala Gly Pro Asp Pro Pro Ser Pro Pro Gly Ala Asp Pro Ser
 165 170 175
 Arg Gly Ala Pro Ile Gly Gly Arg Phe Asp Arg Gln Ala Ser Ala Glu
 180 185 190
 Gly Cys Phe Tyr Asn Ala Asp Tyr Leu Ala Ala Arg Ala Arg Leu Ala
 195 200 205
 Gly Glu Leu Ala Gly Gln Glu Glu Glu Ala Leu Glu Gly Leu Glu
 210 215 220
 Val Met Asp Val Phe Leu Arg Phe Ser Gly Leu His Leu Phe Arg Ala
 225 230 235 240
 Val Glu Pro Gly Leu Val Gln Lys Phe Ser Leu Arg Asp Cys Ser Pro
 245 250 255

Arg Leu Ser Glu Glu Leu Tyr His Arg Cys Arg Leu Ser Asn Leu Glu
 260 265 270
 Gly Leu Gly Gly Arg Ala Gln Leu Ala Met Ala Leu Phe Glu Gln Glu
 275 280 285
 Gln Ala Asn Ser Thr *
 290 293

<210> 1088
 <211> 477
 <212> PRT
 <213> Homo sapiens

<400> 1088
 Met Gln Trp Lys Val Thr Leu Thr Ser Arg Trp Gly Leu Leu Arg His
 1 5 10 15
 Cys Gln Val Leu Ala Gly Leu Leu His Leu Gly Asn Ile Gln Phe Ala
 20 25 30
 Ala Ser Glu Asp Glu Ala Gln Pro Cys Gln Pro Met Asp Asp Ala Lys
 35 40 45
 Tyr Ser Val Arg Thr Ala Ala Ser Leu Leu Gly Leu Pro Glu Asp Val
 50 55 60
 Leu Leu Glu Met Val Gln Ile Lys Thr Ile Arg Ala Gly Arg Gln Gln
 65 70 75 80
 Gln Val Phe Arg Lys Pro Cys Ala Arg Ala Glu Cys Asp Thr Arg Arg
 85 90 95
 Asp Cys Leu Ala Lys Leu Ile Tyr Ala Arg Leu Phe Asp Trp Leu Val
 100 105 110
 Ser Val Ile Asn Ser Ser Ile Cys Ala Asp Thr Asp Ser Trp Thr Thr
 115 120 125
 Phe Ile Gly Leu Leu Asp Val Tyr Gly Phe Glu Ser Phe Pro Asp Asn
 130 135 140
 Ser Leu Glu Gln Leu Cys Ile Asn Tyr Ala Asn Glu Lys Leu Gln Gln
 145 150 155 160
 His Phe Val Ala His Tyr Leu Arg Ala Gln Gln Glu Glu Tyr Ala Val
 165 170 175
 Glu Gly Leu Glu Trp Ser Phe Ile Asn Tyr Gln Asp Asn Gln Pro Cys
 180 185 190
 Leu Asp Leu Ile Glu Gly Ser Pro Ile Ser Ile Cys Ser Leu Ile Asn
 195 200 205
 Glu Glu Cys Arg Leu Asn Arg Pro Ser Ser Ala Ala Gln Leu Gln Thr
 210 215 220
 Arg Ile Glu Thr Ala Leu Ala Gly Ser Pro Cys Leu Gly His Asn Lys
 225 230 235 240
 Leu Ser Arg Glu Pro Ser Phe Ile Val Val His Tyr Ala Gly Pro Val
 245 250 255
 Arg Tyr His Thr Ala Gly Leu Val Glu Lys Asn Lys Asp Pro Ile Pro
 260 265 270
 Pro Glu Leu Thr Arg Leu Leu Gln Gln Ser Gln Asp Pro Leu Leu Met
 275 280 285
 Gly Leu Phe Pro Thr Asn Pro Lys Glu Lys Thr Gln Glu Glu Pro Pro
 290 295 300
 Gly Gln Ser Arg Ala Pro Val Leu Thr Val Val Ser Lys Phe Lys Ala
 305 310 315 320
 Ser Leu Glu Gln Leu Leu Gln Val Leu His Ser Thr Thr Pro His Tyr
 325 330 335
 Ile Arg Cys Ile Met Pro Asn Ser Gln Gly Gln Ala Gln Thr Phe Leu

```

      340      345      350
Gln Glu Glu Val Leu Ser Gln Leu Glu Ala Cys Gly Leu Val Glu Thr
      355      360      365
Ile His Ile Ser Ala Ala Gly Phe Pro Ile Arg Val Ser His Arg Asn
      370      375      380
Phe Val Glu Arg Tyr Lys Leu Leu Arg Arg Leu His Pro Cys Thr Ser
385      390      395      400
Ser Gly Pro Asp Ser Pro Tyr Pro Ala Lys Gly Leu Pro Glu Trp Cys
      405      410      415
Pro His Ser Glu Glu Ala Thr Leu Glu Pro Leu Ile Gln Asp Ile Leu
      420      425      430
His Thr Leu Pro Val Leu Thr Gln Ala Ala Ala Ile Thr Gly Asp Ser
      435      440      445
Ala Glu Ala Met Pro Ala Pro Met His Cys Gly Arg Thr Lys Val Phe
      450      455      460
Met Thr Asp Ser Met Leu Glu Leu Leu Glu Cys Gly Ala
465      470      475      477

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<210> 1089
 <211> 66
 <212> PRT
 <213> Homo sapiens

```

      <400> 1089
Met Ala Ala Gly Val Ser Ser Val Leu Leu Leu Leu Phe Thr Leu Met
  1      5      10      15
Glu Ser Gly Leu Lys His Arg Val Trp Glu Ser Trp Gln Leu Phe Thr
      20      25      30
Ser Trp Leu Ala Phe Cys Ser Pro Ser Phe Ser Val Val Phe Thr Cys
      35      40      45
Ser Tyr Ser Leu Ser Ser Trp Gly Leu Lys Gly Ile Ser Ser Arg Thr
  50      55      60
Arg *
65

```

<210> 1090
 <211> 185
 <212> PRT
 <213> Homo sapiens

```

      <400> 1090
Met Leu Trp Leu Leu Phe Phe Leu Val Thr Ala Ile His Ala Glu Leu
  1      5      10      15
Cys Gln Pro Gly Ala Glu Asn Ala Phe Lys Val Arg Leu Ser Ile Arg
      20      25      30
Thr Ala Leu Gly Asp Lys Ala Tyr Ala Trp Asp Thr Asn Glu Glu Tyr
      35      40      45
Leu Phe Lys Ala Met Val Ala Phe Ser Met Arg Lys Val Pro Asn Arg
  50      55      60
Glu Ala Thr Glu Ile Ser His Val Leu Leu Cys Asn Val Thr Gln Arg
  65      70      75      80
Val Ser Phe Trp Phe Val Val Thr Asp Pro Ser Lys Asn His Thr Leu
      85      90      95

```



```

Pro Ala Val Glu Val Gln Ser Ala Ile Arg Met Asn Lys Asn Arg Ile
      100      105      110
Asn Asn Ala Phe Phe Leu Asn Asp Gln Thr Leu Glu Phe Leu Lys Ile
      115      120      125
Pro Ser Thr Leu Ala Pro Pro Met Asp Pro Ser Val Pro Ile Trp Ile
      130      135      140
Ile Ile Phe Gly Val Ile Phe Cys Ile Ile Ile Val Ala Ile Ala Leu
      145      150      155      160
Leu Ile Leu Ser Gly Ile Trp Gln Arg Arg Arg Lys Asn Lys Glu Pro
      165      170      175
Ser Glu Val Asp Asp Ala Glu Glu *
      180      184

```

```

<210> 1091
<211> 47
<212> PRT
<213> Homo sapiens

```

```

<400> 1091
Met Leu Gly Gly Asn Phe Leu Met Phe Leu Pro Pro Leu Gln Arg Leu
  1      5      10      15
Cys Ser Asn Leu Leu Ser Tyr Val Ile Pro Asn Asp Phe Ser Val Met
      20      25      30
Ser Cys Phe Ile Lys Ala Ser Leu Asn Tyr Thr Leu Leu Ile *
      35      40      45      46

```

```

<210> 1092
<211> 46
<212> PRT
<213> Homo sapiens

```

```

<400> 1092
Met Val Leu Trp Asn Leu Met Leu His Ser Leu Ser Ala Val Thr Tyr
  1      5      10      15
Pro Pro Asp Leu Val Ser Trp Asn Leu His Phe Lys Gln Asn Pro Asp
      20      25      30
His Ser Pro Leu Pro Gln Leu Thr Trp Glu Val Leu Pro *
      35      40      45

```

```

<210> 1093
<211> 64
<212> PRT
<213> Homo sapiens

```

```

<400> 1093
Met Thr Val Ser Phe Cys Cys Cys Trp Ile Leu Ala Val Leu Pro Ser
  1      5      10      15
Pro Pro Leu Tyr Gln Asp Leu Val Gly Ser Lys Leu Glu Ile Gln Ala
      20      25      30
Ala Gly Asp Pro Met Pro Ala Ala Ser Arg Leu Phe His Glu Arg Gln

```

35 40 45
 Ser Leu Pro Gly Ala Pro Ala Thr Ser Ala Ser Pro Ser Val Leu *
 50 55 60 63

<210> 1094
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 1094
 Met His Phe Leu Ala Thr Phe Ala Leu Phe Phe Ile Phe Gly Val Phe
 1 5 10 15
 Phe Leu Phe Ala Val Leu Thr Asn Leu Leu Leu Ala Glu Glu Val Asn
 20 25 30
 Ile Arg Gly Gly Asn Phe Leu Gly Ser Phe Leu Val His Thr Leu Phe
 35 40 45
 Leu Asp Gln Val Pro Gly Glu Ile Thr His Asp Ser His Leu Val Leu
 50 55 60
 Ala Ile Thr Ile Asn Thr Ala Ser Pro Lys Phe Ser Ser Ser Ile Phe
 65 70 75 80
 Phe Tyr Gln Leu *
 84

<210> 1095
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 1095
 Met Ala Ser His Gly Glu Glu Asp Arg His Trp Leu Arg Ala Cys Thr
 1 5 10 15
 Trp Ile Trp Ala Leu Ser Leu Thr Leu Ser Val Ser Ser Ser Val Gly
 20 25 30
 Trp Arg Arg Gly Gly Cys Arg Trp Leu Gly Arg Arg Asn Ala Thr Val
 35 40 45
 Pro Arg Asn Ser Pro His Gly Thr Ser Cys Leu His Cys Val Leu Asp
 50 55 60
 Ile Pro Ala Lys Cys Gly Arg Lys Arg Ser Gly Glu Gly Thr Phe Gln
 65 70 75 80
 Ser Leu Leu Leu Phe Cys Thr Ala *
 85 88

<210> 1096
 <211> 158
 <212> PRT
 <213> Homo sapiens

<400> 1096
 Met Phe Val Ile Ala Phe Leu Ser Pro Leu Ser Leu Ile Phe Leu Ala
 1 5 10 15

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Lys Phe Leu Lys Lys Ala Asp Thr Arg Asp Ser Arg Gln Ala Cys Leu
      20      25      30
Ala Ala Ser Leu Ala Leu Ala Leu Asn Gly Val Phe Thr Asn Thr Ile
      35      40      45
Lys Leu Ile Val Gly Arg Pro Arg Pro Asp Phe Phe Tyr Arg Cys Phe
      50      55      60
Pro Asp Gly Leu Ala His Ser Asp Leu Met Cys Thr Gly Asp Lys Asp
      65      70      75      80
Val Val Asn Glu Gly Arg Lys Ser Phe Pro Ser Gly His Ser Ser Phe
      85      90      95
Ala Phe Ala Gly Leu Ala Phe Ala Ser Phe Tyr Leu Ala Gly Lys Leu
      100      105      110
His Cys Phe Thr Pro Gln Gly Arg Gly Lys Ser Trp Arg Phe Cys Ala
      115      120      125
Phe Leu Ser Pro Leu Leu Phe Ala Ala Val Ile Ala Leu Ser Arg Thr
      130      135      140
Cys Asp Tyr Lys His His Trp Gln Gly Pro Phe Lys Trp *
145      150      155      157

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<210> 1097
<211> 88
<212> PRT
<213> Homo sapiens

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<400> 1097
Met Ile Thr Thr Ser Leu Lys Ser Ser Ser Arg Leu Cys Cys Phe Arg
 1      5      10      15
Arg Ser Ile Phe Thr Ala Thr Cys Phe Pro Val Cys Phe Ser Val
      20      25      30
Ala Met His Thr Met Pro Val Glu Pro Ser Pro Ile Leu Ile Lys Leu
      35      40      45
Ala Lys Tyr Ser Leu Gly Ser Pro Gly Leu Thr Thr Ser Cys Arg Ala
      50      55      60
Ala Arg Asn Cys Ser Trp Asp Thr Leu Glu Gly Cys Trp Ser Glu Glu
      65      70      75      80
Glu Pro Gln Leu Gly Gly Gly *
      85      87

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<210> 1098
<211> 58
<212> PRT
<213> Homo sapiens

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<400> 1098
Met Met Ser Gly Trp Leu Leu Arg Ala Ala Ile Cys Arg Gly Leu Leu
 1      5      10      15
Ser Ser Glu Ser Leu Thr Phe Thr Ser Ala Pro His Ser Ile Ser Ile
      20      25      30
Ala Val Thr Cys Arg Asp Gly Asn Leu Gln Thr Gly Tyr Arg Pro Thr
      35      40      45
His Val Val Phe Leu Ser Thr Ala Arg *
      50      55      57

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<210> 1099
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1099
 Met Ala Ser Glu Pro Cys Trp Trp Ala Gly Met Leu Pro Cys Ala Cys
 1 5 10 15
 Ala Gly Leu Arg Arg Cys Ser His Ser Arg Phe Leu Gln Arg Gly His
 20 25 30
 Gly Leu His Ser Leu Met Gly Ser Leu Pro Ala Pro Ile Ser Pro Pro
 35 40 45
 Trp Thr His Pro Trp Gly Ile Ile Leu Pro Trp Pro Ile Arg Gly His
 50 55 60
 Pro Ser Val Pro Ile Arg Leu *
 65 70 71

<210> 1100
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1100
 Met Ser Phe Phe Leu Ile Leu Gly Val Gly Ser Cys Leu Ser Tyr Ser
 1 5 10 15
 Leu Val Pro Leu Ile Ile Leu Ser Phe Cys His Phe Tyr Pro Glu Ser
 20 25 30
 Val Gly Cys Pro Asp Ala Pro Ser Pro Arg Val Arg Gly Arg Val
 35 40 45 47

<210> 1101
 <211> 130
 <212> PRT
 <213> Homo sapiens

<400> 1101
 Met Arg Pro Leu Lys Pro Gly Ala Pro Leu Pro Ala Leu Phe Leu Leu
 1 5 10 15
 Ala Leu Ala Leu Ser Pro His Gly Ala His Gly Arg Pro Arg Gly Arg
 20 25 30
 Arg Gly Ala Arg Val Thr Asp Lys Glu Pro Lys Pro Leu Leu Phe Leu
 35 40 45
 Pro Ala Ala Gly Ala Gly Arg Thr Pro Ser Gly Ser Arg Ser Ala Glu
 50 55 60
 Ile Phe Pro Arg Asp Ser Asn Leu Lys Asp Lys Phe Ile Lys His Phe
 65 70 75 80
 Thr Gly Pro Val Thr Phe Ser Pro Glu Cys Ser Lys His Phe His Arg
 85 90 95
 Leu Tyr Tyr Asn Thr Arg Glu Cys Ser Thr Pro Ala Tyr Tyr Lys Arg
 100 105 110

Cys Ala Arg Leu Leu Thr Arg Leu Ala Val Ser Pro Leu Cys Ser Gln
 115 120 125
 Thr *
 129

<210> 1102
 <211> 170
 <212> PRT
 <213> Homo sapiens

<400> 1102
 Met Gln Phe Val Leu Leu Arg Thr Leu Ala Tyr Ile Pro Thr Pro Ile
 1 5 10 15
 Tyr Phe Gly Ala Val Ile Asp Thr Thr Cys Met Leu Trp Gln Gln Glu
 20 25 30
 Cys Gly Val Gln Gly Ser Cys Trp Glu Tyr Asn Val Thr Ser Phe Arg
 35 40 45
 Phe Val Tyr Phe Gly Leu Ala Val Leu Lys Tyr Val Gly Cys Ile
 50 55 60
 Phe Ile Leu Leu Ala Trp Tyr Ser Ile Lys Asp Thr Glu Asp Glu Gln
 65 70 75 80
 Pro Arg Leu Arg Gln Lys Lys Ile Cys Leu Ser Thr Leu Ser Asp Thr
 85 90 95
 Met Thr Gln Pro Asp Ser Ala Gly Val Val Ser Cys Pro Leu Phe Thr
 100 105 110
 Pro Asp Gly Glu Ile His Lys Lys Thr Gly Leu Arg Lys Arg Asp Pro
 115 120 125
 Gly Gly Thr Thr Glu Pro Thr Pro Gly Pro Leu Arg Lys Arg Pro Leu
 130 135 140
 Cys Thr Leu Glu Ala Pro Arg Leu Pro Asn Lys Ala Pro Phe Thr Leu
 145 150 155 160
 Glu Leu Ala Leu Leu Arg Val Arg Leu *
 165 169

<210> 1103
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 1103
 Met Leu Ile Ile Phe Asn Ala Val Trp Val Arg Cys Leu Lys Pro Lys
 1 5 10 15
 Ile Pro Ala Arg Pro Thr Thr Asn Asp Thr Met Ile Ser Lys Thr Lys
 20 25 30
 Gln His Thr Gln Tyr Thr Ser Tyr Ala Pro Ser Trp Pro Trp Leu Gly
 35 40 45
 Pro Ala Ala Cys Gln His Gly Pro Leu Ile Ser His Thr Pro
 50 55 60 62

<210> 1104
 <211> 83

<212> PRT
<213> Homo sapiens

<400> 1104
Met Lys Gln Leu Ser Pro Leu Pro Leu Pro Trp Val Leu Cys Phe Leu
1 5 10 15
Trp Lys Pro Ser Lys Leu Ser Val Leu Ser Phe Ala Ser Pro Pro Ser
20 25 30
Thr Lys Pro Ser Gln Gln Ala Gly Leu Val Cys Ser Leu Ile Arg Val
35 40 45
Ser Thr Ser Ser Thr Pro Ala Cys Thr Phe Tyr Leu Pro Val Asn Ala
50 55 60
Lys Cys Arg Ser Cys Pro Leu Asn Asn Pro Pro Trp Glu Val Pro Trp
65 70 75 80
Ile Asn *
82

<210> 1105
<211> 124
<212> PRT
<213> Homo sapiens

<400> 1105
Met Val Phe Thr Val Thr Leu Lys Leu Ala Leu Asp Thr His Tyr Trp
1 5 10 15
Thr Trp Ile Asn His Phe Val Ile Trp Gly Ser Leu Leu Phe Tyr Val
20 25 30
Val Phe Ser Leu Leu Trp Gly Gly Val Ile Trp Pro Phe Leu Asn Tyr
35 40 45
Gln Arg Met Tyr Tyr Val Phe Ile Gln Met Leu Ser Ser Gly Pro Ala
50 55 60
Trp Leu Ala Ile Val Leu Leu Val Thr Ile Ser Leu Leu Pro Asp Val
65 70 75 80
Leu Lys Lys Val Leu Cys Arg Gln Leu Trp Pro Thr Ala Thr Glu Arg
85 90 95
Val Gln Thr Lys Ser Gln Cys Leu Ser Val Glu Gln Ser Thr Ile Phe
100 105 110
Met Leu Ser Gln Thr Ser Ser Ser Leu Ser Phe *
115 120 123

<210> 1106
<211> 248
<212> PRT
<213> Homo sapiens

<400> 1106
Met Ser Phe Ser Ala Tyr Gln Thr Ala Phe Ile Cys Leu Gly Leu Leu
1 5 10 15
Val Gln Gln Ile Phe Phe Leu Gly Thr Thr Ala Leu Ala Phe Leu
20 25 30
Val Leu Met Pro Val Leu His Gly Arg Asn Leu Leu Leu Phe Arg Ser
35 40 45

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Leu Glu Ser Ser Trp Pro Phe Trp Leu Thr Leu Ala Leu Ala Val Ile
  50          55          60
Leu Gln Asn Met Ala Ala His Trp Val Phe Leu Glu Thr His Asp Gly
  65          70          75          80
His Pro Gln Leu Thr Asn Arg Arg Val Leu Tyr Ala Ala Thr Phe Leu
          85          90          95
Leu Phe Pro Leu Asn Val Leu Val Gly Ala Met Val Ala Thr Trp Arg
          100          105          110
Val Leu Leu Ser Ala Leu Tyr Asn Ala Ile His Leu Gly Gln Met Asp
          115          120          125
Leu Ser Leu Leu Pro Pro Arg Ala Ala Thr Leu Asp Pro Gly Tyr Tyr
  130          135          140
Thr Tyr Arg Asn Phe Leu Lys Ile Glu Val Ser Gln Ser His Pro Ala
  145          150          155          160
Met Thr Ala Phe Cys Ser Leu Leu Leu Gln Ala Gln Ser Leu Leu Pro
          165          170          175
Arg Thr Met Ala Ala Pro Gln Asp Ser Leu Arg Pro Gly Glu Glu Asp
          180          185          190
Glu Gly Met Gln Leu Leu Gln Thr Lys Asp Ser Met Ala Lys Gly Ala
          195          200          205
Arg Pro Gly Ala Ser Arg Gly Arg Ala Arg Trp Gly Leu Ala Tyr Thr
  210          215          220
Leu Leu His Asn Pro Thr Leu Gln Val Phe Arg Lys Thr Ala Leu Leu
  225          230          235          240
Gly Ala Asn Gly Ala Gln Pro *
          245          247

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<210> 1107
<211> 121
<212> PRT
<213> Homo sapiens

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<400> 1107
Met Met Leu Ala Phe Thr Met Trp Asn Pro Trp Ile Ala Met Cys Leu
  1          5          10          15
Leu Gly Leu Ser Tyr Ser Leu Leu Ala Cys Ala Leu Trp Pro Met Val
          20          25          30
Ala Phe Val Val Pro Glu His Gln Leu Gly Thr Ala Tyr Gly Phe Met
          35          40          45
Gln Ser Ile Gln Asn Leu Gly Leu Ala Ile Ile Ser Ile Ile Ala Gly
          50          55          60
Met Ile Leu Asp Ser Arg Gly Tyr Leu Phe Leu Glu Val Phe Phe Ile
  65          70          75          80
Ala Cys Val Ser Leu Ser Leu Leu Ser Val Val Leu Leu Tyr Leu Val
          85          90          95
Asn Arg Ala Gln Gly Gly Asn Leu Asn Tyr Ser Ala Arg Gln Arg Glu
          100          105          110
Glu Ile Lys Phe Ser His Thr Glu *
          115          120

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<210> 1108
<211> 53
<212> PRT
<213> Homo sapiens

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<400> 1108
 Met Phe Lys Asn Thr Ser Gly Tyr Thr Glu Arg Val Ala Val Trp Leu
 1 5 10 15
 Gly Val Glu Ile Phe Cys Leu Leu Met Met Ser Ser Val Leu Val Pro
 20 25 30
 Leu Phe Tyr Phe Leu Met Leu Phe Gly Asn Phe Leu Gln Asn Leu Ser
 35 40 45
 Leu Gly Ser Arg *
 50 52

<210> 1109
 <211> 259
 <212> PRT
 <213> Homo sapiens

<400> 1109
 Met His Val Val Ile Val Leu Lys Ala Leu Val Ala Val Gln Ile Leu
 1 5 10 15
 Leu Ser Ile Lys Glu Tyr Thr Leu Glu Arg Asn His Met His Val Ile
 20 25 30
 Ser Val Ile Lys Val Leu Val Lys Ala Gln Thr Ser Leu Asn Ile Arg
 35 40 45
 Glu Tyr Thr Leu Val Lys Ser Leu Ile Ile Ala Ile Val Val Arg Lys
 50 55 60
 Pro Ser Val Arg Val Leu Thr Leu Phe Phe Ile Arg Glu Phe Thr Leu
 65 70 75 80
 Glu Lys Asn Tyr Tyr Leu Cys Thr Gln Cys Ser Lys Ser Phe Ser Gln
 85 90 95
 Ile Ser Asp Leu Ile Lys His Gln Arg Ile His Thr Gly Glu Lys Pro
 100 105 110
 Tyr Lys Cys Ser Glu Cys Arg Lys Ala Phe Ser Gln Cys Ser Ala Leu
 115 120 125
 Thr Leu His Gln Arg Ile His Thr Gly Lys Lys Pro Asn Pro Cys Asp
 130 135 140
 Glu Cys Gly Lys Ser Phe Ser Arg Arg Ser Asp Leu Ile Asn His Gln
 145 150 155 160
 Lys Ile His Thr Gly Glu Lys Pro Tyr Lys Cys Asp Ala Cys Gly Lys
 165 170 175
 Ala Phe Ser Thr Cys Thr Asp Leu Ile Glu His Gln Lys Thr His Ala
 180 185 190
 Glu Glu Lys Pro Tyr Gln Cys Val Gln Cys Ser Arg Ser Cys Ser Gln
 195 200 205
 Leu Ser Glu Leu Thr Ile His Glu Glu Val His Cys Gly Glu Asp Ser
 210 215 220
 Gln Asn Val Met Asn Val Arg Lys Pro Leu Val Cys Thr Pro Thr Leu
 225 230 235 240
 Phe Ser Thr Arg Asp Thr Val Pro Glu Lys Asn Leu Met Asn Ala Val
 245 250 255
 Asp Tyr *
 258

<210> 1110

<211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1110
 Met Thr Cys Ser Leu Leu Ser Leu Leu Asp Ala Val Cys Ser Ser Phe
 1 5 10 15
 Val Gln Ala Phe Cys Ser Arg Asp Pro Glu Arg Trp Pro Ala Ile Ser
 20 25 30
 Pro His Ser Leu Ser Gly Ala Phe Tyr Phe Leu Asn Val Cys *
 35 40 45 46

<210> 1111
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 1111
 Met Ser Leu Arg Ala Pro Ser Val Arg Ile Phe Val Tyr Leu Leu Phe
 1 5 10 15
 Arg Leu His Thr Gln Arg Gly Leu Leu Ala Gly Arg Arg Gln Trp Gly
 20 25 30
 Pro Cys Pro Leu Ser Phe Ser His Phe Leu His Leu Ser Val Leu Ser
 35 40 45
 Cys Ser Thr Gln Ile Tyr Thr Glu Gly Ser Trp Pro Gly Trp Ala Ser
 50 55 60
 Leu Gly Ala Pro Ser Val His Trp Ala Arg Phe Pro Cys Trp Leu Gln
 65 70 75 80
 Ala Met Gly Ser Phe Ser Pro Leu Cys Pro Ser Cys *
 85 90 92

<210> 1112
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 1112
 Met Met Pro Thr Asn Leu Ala His Leu Val Phe Trp Gln Ala Leu Leu
 1 5 10 15
 Ala Ser Gly Arg Phe Ser Leu Met Glu His Tyr Pro Pro Asn Val Gln
 20 25 30
 Ser Asn Arg Gly Ile Thr His Tyr Met Leu Pro Arg Gly Tyr Ile Leu
 35 40 45
 Gly Leu Leu Tyr Ser Ser Ala Gly Asn Thr Gly Thr Ser Arg Pro Arg
 50 55 60
 Arg Thr His Tyr Gly Thr *
 65 70

<210> 1113
 <211> 47

<212> PRT

<213> Homo sapiens

<400> 1113

```

Met Tyr Leu Val Lys Gly Leu Leu Ile Gly Leu His Ser Ile Leu Leu
 1          5          10          15
Cys Leu Arg Glu Gln Gly Gly Leu Arg Arg Val Glu Arg Asp Glu Gly
          20          25          30
Thr Ala Ser Trp Tyr Ser Ser Gln Asn Thr Tyr Asn Ile Tyr *
          35          40          45  46

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<210> 1114

<211> 55

<212> PRT

<213> Homo sapiens

<400> 1114

```

Met Thr Val Leu Ser Phe Gln Tyr Glu Tyr Leu Ile Phe Leu Leu Thr
 1          5          10          15
Ser Leu Thr Thr Ile Tyr Asn Thr Thr Leu Ser Arg Ser Gly Asp Gly
          20          25          30
Arg Arg Thr Cys Leu Val Phe Asn Leu Arg Glu Lys Val Phe Cys Phe
          35          40          45
Ser Thr Leu Gly Ile Ile *
          50          54

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<210> 1115

<211> 83

<212> PRT

<213> Homo sapiens

<400> 1115

```

Met Asn Val Ile Cys Leu Thr Leu Cys Leu Val Ser Ser Lys Cys Ser
 1          5          10          15
Val Gly Gly Thr Ala Ser Phe Val Leu Leu Cys Phe Ser Leu Pro Val
          20          25          30
Ser Ser Arg Arg Arg Ala Phe Gln Glu Ser Gln Gly Trp Thr Glu Pro
          35          40          45
Arg Gly Gly Pro Ser Gly Leu Pro His Thr Glu Pro Gly Phe Met Ala
          50          55          60
Ser Ala Ala Thr Arg Gly Leu Ser Gly Cys Gly Ser Gln Ala Ala Val
          65          70          75          80
Leu Thr *
          82

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<210> 1116

<211> 145

<212> PRT

<213> Homo sapiens

<400> 1116
 Met Val Leu Leu Val Val Gly Asn Leu Val Asn Trp Ser Phe Ala Leu
 1 5 10 15
 Phe Gly Leu Ile Tyr Arg Pro Arg Asp Phe Ala Ser Tyr Met Leu Gly
 20 25 30
 Ile Phe Ile Cys Asn Leu Leu Leu Tyr Leu Ala Phe Tyr Ile Ile Met
 35 40 45
 Lys Leu Arg Ser Ser Glu Lys Val Leu Pro Val Pro Leu Phe Cys Ile
 50 55 60
 Val Ala Thr Ala Val Met Trp Ala Ala Ala Leu Tyr Phe Phe Phe Gln
 65 70 75 80
 Asn Leu Ser Ser Trp Glu Gly Thr Pro Ala Glu Ser Arg Glu Lys Asn
 85 90 95
 Arg Glu Cys Ile Leu Leu Asp Phe Phe Asp Asp His Asp Ile Trp His
 100 105 110
 Phe Leu Ser Ala Thr Ala Leu Phe Phe Ser Phe Leu Asp Leu Leu Thr
 115 120 125
 Leu Asp Asp Asp Leu Asp Val Val Arg Arg Asp Gln Ile Pro Val Phe
 130 135 140 144
 *

<210> 1117
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 1117
 Met Gly Asp Phe Ala Gly Val Asp Phe Val Phe Leu Val Val Cys Phe
 1 5 10 15
 Ala Gln Arg Gln Gly Ala Ala Glu Ala Val Gly Ala Val Leu Ala Val
 20 25 30
 Leu Leu Cys Asp Thr Leu Leu Gly Val Thr Arg Leu Glu Gly Val Ile
 35 40 45
 His Leu Pro Leu Tyr Phe Gly Leu Ser Gly Ile Glu Val Ile Gln Gln
 50 55 60
 Ala His Asn Arg Gly Ser Ser Arg Phe Gln Leu Leu Ile Arg Trp Arg
 65 70 75 80
 Glu Asp Glu Asp Arg Trp Cys Ser His Ser Ser Phe Asp Val His Leu
 85 90 95
 Gly Pro Leu Ala Glu Arg Pro His Val Ser Thr Gln Leu Leu Thr Val
 100 105 110
 Ile Ser Cys Lys Ile Phe Arg Leu Gln Ala Thr Asp Cys Glu Ser Lys
 115 120 125
 Phe Cys Pro Arg Ser Ser Ala Ala Glu Pro *
 130 135 138

<210> 1118
 <211> 194
 <212> PRT
 <213> Homo sapiens

<400> 1118
 Met Cys Leu Leu Phe Leu Leu Pro Arg Phe Pro Val Ser Trp Arg Ala
 1 5 10 15
 Gly Val Asp Gly Ala Ala Pro Ser Ser Gln Asp Leu Trp Arg Ile Arg
 20 25 30
 Ser Pro Cys Gly Asp Cys Glu Gly Phe Asp Val His Ile Met Asp Asp
 35 40 45
 Met Ile Lys Arg Ala Leu Asp Phe Arg Glu Ser Arg Glu Ala Glu Pro
 50 55 60
 His Pro Leu Trp Glu Tyr Pro Cys Arg Ser Leu Ser Glu Pro Trp Gln
 65 70 75 80
 Ile Leu Thr Phe Asp Phe Gln Gln Pro Val Pro Leu Gln Pro Leu Cys
 85 90 95
 Ala Glu Gly Thr Val Glu Leu Lys Arg Pro Gly Gln Ser His Ala Ala
 100 105 110
 Val Leu Trp Met Glu Tyr His Leu Thr Pro Glu Cys Thr Leu Ser Thr
 115 120 125
 Gly Leu Leu Glu Pro Ala Asp Pro Glu Gly Gly Cys Cys Trp Asn Pro
 130 135 140
 His Cys Lys Gln Ala Val Tyr Phe Phe Ser Pro Ala Pro Asp Pro Arg
 145 150 155 160
 Ala Leu Leu Gly Gly Pro Arg Thr Val Ser Tyr Ala Val Glu Phe His
 165 170 175
 Pro Asp Thr Gly Asp Ile Ile Met Glu Phe Arg His Ala Asp Thr Pro
 180 185 190
 Asp *
 193

<210> 1119
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 1119
 Met Leu Val Leu Leu Pro Arg Ser Lys Ala Met Pro Leu Leu Ser Val
 1 5 10 15
 Asn Val Thr Leu Ala Phe Phe Pro Arg Asn Lys Glu Ile Val Lys Tyr
 20 25 30
 Leu Leu Asn Gln Gly Ala Asp Val Thr Leu Arg Ala Lys Asn Gly Tyr
 35 40 45
 Thr Ala Phe Asp Leu Val Met Leu Leu Asn Asp Pro Asp Ile Phe Gly
 50 55 60
 Gly Glu Leu Ile Gly Phe Leu Ser Val Val Thr Glu Leu Val Arg Leu
 65 70 75 80
 Leu Ala Ser Val Phe Met Gln Val Asn Lys Asp Ile Gly Arg Arg Ser
 85 90 95
 His Gln Leu Pro Leu Pro His Ser Lys Val Pro Thr Ala Leu Glu His
 100 105 110
 Pro Ser Ala Ala Arg *
 115 117

<210> 1120
 <211> 842
 <212> PRT

<213> Homo sapiens

<400> 1120

Met	Leu	Trp	Gly	Ser	Gly	Lys	Cys	Lys	Ala	Leu	Thr	Lys	Phe	Lys	Phe	1	5	10	15
Val	Phe	Phe	Leu	Arg	Leu	Ser	Arg	Ala	Gln	Gly	Gly	Leu	Phe	Glu	Thr	20	25	30	
Leu	Cys	Asp	Gln	Leu	Leu	Asp	Ile	Pro	Gly	Thr	Ile	Arg	Lys	Gln	Thr	35	40	45	
Phe	Met	Ala	Met	Leu	Leu	Lys	Leu	Arg	Gln	Arg	Val	Leu	Phe	Leu	Leu	50	55	60	
Asp	Gly	Tyr	Asn	Glu	Phe	Lys	Pro	Gln	Asn	Cys	Pro	Glu	Ile	Glu	Ala	65	70	75	80
Leu	Ile	Lys	Glu	Asn	His	Arg	Phe	Lys	Asn	Met	Val	Ile	Val	Thr	Thr	85	90	95	
Thr	Thr	Glu	Cys	Leu	Arg	His	Ile	Arg	Gln	Phe	Gly	Ala	Leu	Thr	Ala	100	105	110	
Glu	Val	Gly	Asp	Met	Thr	Glu	Asp	Ser	Ala	Gln	Ala	Leu	Ile	Arg	Glu	115	120	125	
Val	Leu	Ile	Lys	Glu	Leu	Ala	Glu	Gly	Leu	Leu	Leu	Gln	Ile	Gln	Lys	130	135	140	
Ser	Arg	Cys	Leu	Arg	Asn	Leu	Met	Lys	Thr	Pro	Leu	Phe	Val	Val	Ile	145	150	155	160
Thr	Cys	Ala	Ile	Gln	Met	Gly	Glu	Ser	Glu	Phe	His	Ser	His	Thr	Gln	165	170	175	
Thr	Thr	Leu	Phe	His	Thr	Phe	Tyr	Asp	Leu	Leu	Ile	Gln	Lys	Asn	Lys	180	185	190	
His	Lys	His	Lys	Gly	Val	Ala	Ala	Ser	Asp	Phe	Ile	Arg	Ser	Leu	Asp	195	200	205	
His	Cys	Gly	Tyr	Leu	Ala	Leu	Glu	Gly	Val	Phe	Ser	His	Lys	Phe	Asp	210	215	220	
Phe	Glu	Leu	Gln	Asp	Val	Ser	Ser	Val	Asn	Glu	Asp	Val	Leu	Leu	Thr	225	230	235	240
Thr	Gly	Leu	Leu	Cys	Lys	Tyr	Thr	Ala	Gln	Arg	Phe	Lys	Pro	Lys	Tyr	245	250	255	
Lys	Phe	Phe	His	Lys	Ser	Phe	Gln	Glu	Tyr	Thr	Ala	Gly	Arg	Arg	Leu	260	265	270	
Ser	Ser	Leu	Leu	Thr	Ser	His	Glu	Pro	Glu	Glu	Val	Thr	Lys	Gly	Asn	275	280	285	
Gly	Tyr	Leu	Gln	Lys	Met	Val	Ser	Ile	Ser	Asp	Ile	Thr	Ser	Thr	Tyr	290	295	300	
Ser	Ser	Leu	Leu	Arg	Tyr	Thr	Cys	Gly	Ser	Ser	Val	Glu	Ala	Thr	Arg	305	310	315	320
Ala	Val	Met	Lys	His	Leu	Ala	Ala	Val	Tyr	Gln	His	Gly	Cys	Leu	Leu	325	330	335	
Gly	Leu	Ser	Ile	Ala	Lys	Arg	Pro	Leu	Trp	Arg	Gln	Glu	Ser	Leu	Gln	340	345	350	
Ser	Val	Lys	Asn	Thr	Thr	Glu	Gln	Glu	Ile	Leu	Lys	Ala	Ile	Asn	Ile	355	360	365	
Asn	Ser	Phe	Val	Glu	Cys	Gly	Ile	His	Leu	Tyr	Gln	Glu	Ser	Thr	Ser	370	375	380	
Lys	Ser	Ala	Leu	Ser	Gln	Glu	Phe	Glu	Ala	Phe	Phe	Gln	Gly	Lys	Ser	385	390	395	400
Leu	Tyr	Ile	Asn	Ser	Gly	Asn	Ile	Pro	Asp	Tyr	Leu	Phe	Asp	Phe	Phe	405	410	415	
Glu	His	Leu	Pro	Asn	Cys	Ala	Ser	Ala	Leu	Asp	Phe	Ile	Lys	Leu	Gly	420	425	430	
Phe	Tyr	Gly	Gly	Ala	Met	Ala	Ser	Trp	Glu	Lys	Ala	Ala	Glu	Asp	Thr				

<400> 1121
 Met Gly Leu Phe Phe Phe Phe Ser Gly Val Gly Ser Phe Val Gly Ser
 1 5 10 15
 Gly Leu Leu Ala Leu Val Ser Ile Lys Ala Ile Gly Trp Met Ser Ser
 20 25 30
 His Thr Asp Phe Gly Asn Ile Asn Gly Cys Tyr Leu Asn Tyr Tyr Phe
 35 40 45
 Phe Leu Leu Ala Ala Ile Gln Gly Ala Thr Leu Leu Leu Phe Leu Ile
 50 55 60
 Ile Ser Val Lys Tyr Asp His His Arg Asp His Gln Arg Ser Arg Ala
 65 70 75 80
 Asn Gly Val Pro Thr Ser Arg Arg Ala *

<210> 1122
 <211> 129
 <212> PRT
 <213> Homo sapiens

<400> 1122
 Met Phe Leu Leu Phe Trp Phe Ile Leu Ser Glu Gly Cys Pro Leu Leu
 1 5 10 15
 Glu Gln Leu Asn Ile Ser Trp Cys Asp Gln Val Thr Lys Asp Gly Ile
 20 25 30
 Gln Ala Leu Val Arg Gly Cys Gly Gly Leu Lys Ala Leu Phe Leu Lys
 35 40 45
 Gly Cys Thr Gln Leu Glu Asp Glu Ala Leu Lys Tyr Ile Gly Ala His
 50 55 60
 Cys Pro Glu Leu Val Thr Leu Asn Leu Gln Thr Cys Leu Gln Ile Thr
 65 70 75 80
 Asp Glu Gly Leu Ile Thr Ile Cys Arg Gly Cys His Lys Leu Gln Ser
 85 90 95
 Leu Cys Ala Ser Gly Cys Ser Asn Ile Thr Asp Ala Ile Leu Asn Ala
 100 105 110
 Leu Ser Gln Asn Cys Pro Arg Leu Ile Ile Leu Glu Val Ala Arg Cys
 115 120 125
 Ser
 129

<210> 1123
 <211> 243
 <212> PRT
 <213> Homo sapiens

<400> 1123
 Met Ala Ala Ala Leu Trp Gly Phe Phe Pro Val Leu Leu Leu Leu
 1 5 10 15
 Leu Ser Gly Asp Val Gln Ser Ser Glu Val Pro Gly Ala Ala Ala Glu
 20 25 30
 Gly Ser Gly Gly Ser Gly Val Gly Ile Gly Asp Arg Phe Lys Ile Glu
 35 40 45
 Gly Arg Ala Val Val Pro Gly Val Lys Pro Gln Asp Trp Ile Ser Ala

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      50      55      60
Ala Arg Val Leu Val Asp Gly Glu Glu His Val Gly Phe Leu Lys Thr
 65      70      75      80
Asp Gly Ser Phe Val Val His Asp Ile Pro Ser Gly Ser Tyr Val Val
      85      90      95
Glu Val Val Ser Pro Ala Tyr Arg Phe Asp Pro Val Arg Val Asp Ile
      100      105      110
Thr Ser Lys Gly Lys Met Arg Ala Arg Tyr Val Asn Tyr Ile Lys Thr
      115      120      125
Ser Glu Val Val Arg Leu Pro Tyr Pro Leu Gln Met Lys Ser Ser Gly
      130      135      140
Pro Pro Ser Tyr Phe Ile Lys Arg Glu Ser Trp Gly Trp Thr Asp Phe
145      150      155      160
Leu Met Asn Pro Met Val Met Met Met Val Leu Pro Leu Leu Ile Phe
      165      170      175
Val Leu Leu Pro Lys Val Val Asn Thr Ser Asp Pro Asp Met Arg Arg
      180      185      190
Glu Met Glu Gln Ser Met Asn Met Leu Asn Ser Asn His Glu Leu Pro
      195      200      205
Asp Val Ser Glu Phe Met Thr Arg Leu Phe Ser Ser Lys Ser Ser Gly
      210      215      220
Lys Ser Ser Ser Gly Ser Ser Lys Thr Gly Lys Ser Gly Ala Gly Lys
225      230      235      240
Arg Arg *
242

```

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<210> 1124
<211> 71
<212> PRT
<213> Homo sapiens

```

```

<400> 1124
Met Leu Ser Tyr Ala His Ile Thr Leu Ala Val Leu Arg Ile Pro Ser
 1      5      10      15
Ala Thr Gly Cys Trp Arg Ala Phe Phe Thr Cys Ala Ser His Leu Thr
      20      25      30
Val Val Thr Val Phe Tyr Thr Ala Leu Leu Phe Met Tyr Val Arg Pro
      35      40      45
Gln Ala Ile Asp Ser Arg Ser Ser Asn Lys Leu Ile Ser Val Leu Tyr
      50      55      60
Thr Val Ile Thr Pro Ser Val
65      70 71

```

```

<210> 1125
<211> 48
<212> PRT
<213> Homo sapiens

```

```

<400> 1125
Met Pro Thr Leu Gly Asp Ala Leu Ile Leu Tyr Leu His Leu Val Leu
 1      5      10      15
Gly Val Ala Gly Val Leu Gln Pro Pro Gly Pro Arg Pro Ser Gln Ala
      20      25      30

```


Leu Gly Pro Thr Gly Asp Arg Ala Pro Gly Lys Trp Asn Arg Ser *

35 40 45 47

<210> 1126
 <211> 159
 <212> PRT
 <213> Homo sapiens

<400> 1126

Met	Phe	Leu	Ile	Val	Leu	Pro	Leu	Glu	Ser	Met	Ala	His	Gly	Leu	Phe
1				5					10					15	
His	Glu	Leu	Gly	Asn	Cys	Leu	Gly	Gly	Thr	Ser	Val	Gly	Tyr	Ala	Ile
			20					25					30		
Val	Ile	Pro	Thr	Asn	Phe	Cys	Ser	Pro	Asp	Gly	Gln	Pro	Thr	Leu	Leu
		35					40					45			
Pro	Pro	Glu	His	Val	Gln	Glu	Leu	Asn	Leu	Arg	Ser	Thr	Gly	Met	Leu
		50				55					60				
Asn	Ala	Ile	Gln	Arg	Phe	Phe	Ala	Tyr	His	Met	Ile	Glu	Thr	Tyr	Gly
65				70						75				80	
Cys	Asp	Tyr	Ser	Thr	Ser	Gly	Leu	Ser	Phe	Asp	Thr	Leu	His	Ser	Lys
				85					90					95	
Leu	Lys	Ala	Phe	Leu	Glu	Leu	Arg	Thr	Val	Asp	Gly	Pro	Arg	His	Asp
			100					105					110		
Thr	Tyr	Ile	Leu	Tyr	Tyr	Ser	Gly	His	Thr	His	Gly	Thr	Gly	Glu	Trp
		115					120						125		
Ala	Leu	Ala	Gly	Gly	Asp	Thr	Leu	Arg	Leu	Asp	Thr	Leu	Ile	Glu	Trp
	130					135					140				
Trp	Arg	Glu	Lys	Asn	Gly	Ser	Phe	Cys	Ser	Pro	Pro	Tyr	Tyr	Arg	
145					150					155				159	

<210> 1127
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1127

Met	Thr	Gly	Pro	Arg	Pro	Met	Ile	Leu	His	Phe	Ile	Leu	Val	Ala	Ser
1				5					10					15	
Ala	Ser	Cys	Trp	Glu	Val	Leu	Phe	Cys	Cys	Trp	Gln	Pro	Cys	Pro	Leu
		20						25					30		
Gly	Ile	His	Ala	Thr	Ser	Asn	Ser	Pro	Ser	Gln	Leu	Gln	Gln	Leu	Ser
		35					40					45			
Cys	Thr	Lys	Leu	Pro	Leu	Met	Phe	Arg	Arg	Ile	Leu	Glu	Asp	Thr	Ile
		50				55					60				
Phe	Ala	Ile	Leu	Tyr	His	Ile	Ala	Thr	Ile	Phe	*				
65					70					75					

<210> 1128
 <211> 140
 <212> PRT
 <213> Homo sapiens

<400> 1128

```

Met Gly Ala Gly Leu Ala Val Val Pro Leu Met Gly Leu Leu Glu Ser
 1          5          10          15
Ile Ala Val Ala Lys Ala Phe Ala Ser Gln Asn Asn Tyr Arg Ile Asp
          20          25          30
Ala Asn Gln Glu Leu Leu Ala Ile Gly Leu Thr Asn Met Leu Gly Ser
          35          40          45
Leu Val Ser Ser Tyr Pro Val Thr Gly Ser Phe Gly Arg Thr Ala Val
          50          55          60
Asn Ala Gln Ser Gly Val Cys Thr Pro Ala Glu Gly Leu Val Thr Glu
65          70          75          80
Val Leu Val Leu Leu Ser Leu Asp Tyr Leu Thr Ser Leu Phe Tyr Tyr
          85          90          95
Ile Pro Lys Ser Ala Leu Ala Ala Val Ile Ile Met Ala Val Ala Pro
          100          105          110
Leu Phe Asp Thr Lys Ile Phe Arg Thr Leu Trp Arg Val Lys Arg Leu
          115          120          125
Asp Leu Leu Ser Leu Ser Val Thr Phe Leu Leu Cys
130          135          140

```

<210> 1129

<211> 116

<212> PRT

<213> Homo sapiens

<400> 1129

```

Met Ala Glu Ala Phe Pro Phe Phe Ser Pro Phe Leu Gly Trp Leu Gly
 1          5          10          15
Val Phe Leu Thr Gly Ser Asp Thr Ser Ser Asn Ala Leu Phe Ser Ser
          20          25          30
Leu Gln Ala Thr Thr Ala His Gln Ile Gly Val Ser Asp Val Leu Leu
          35          40          45
Val Ala Ala Asn Thr Ser Gly Gly Val Thr Gly Lys Met Ile Ser Pro
          50          55          60
Gln Ser Ile Ala Val Ala Cys Ala Ala Thr Gly Leu Val Gly Lys Glu
65          70          75          80
Ser Asp Leu Phe Arg Phe Thr Leu Lys His Ser Leu Phe Phe Ala Thr
          85          90          95
Ile Val Gly Leu Ile Thr Leu Ala Gln Ala Tyr Trp Phe Thr Gly Met
          100          105          110
Leu Val His *
          115

```

<210> 1130

<211> 81

<212> PRT

<213> Homo sapiens

<400> 1130

```

Met Asn Lys Leu Leu Val Ala Ala Thr Ala Ile Leu Phe Ser Leu Gly
 1          5          10          15

```

Cys His Glu Lys Cys Lys Ile Phe Phe Leu Lys Ser Ile Ser Ser Pro
 20 25 30
 Gln Ser Leu Phe Leu Ala Asp Leu Cys Ala Ser Glu Pro Tyr Leu Leu
 35 40 45
 Phe Leu Asn Ala Val Leu Ser Ala Cys Asn Thr Ile Ser Phe Ile Ser
 50 55 60
 Val Pro Glu Ser Ser Gly Phe Ala Pro Ser Pro Pro Ala Ile Leu Leu
 65 70 75 80
 Leu
 81

<210> 1131
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1131
 Met Cys Cys Trp Ile Trp Phe Ala Ser Ile Leu Leu Arg Ile Phe Ala
 1 5 10 15
 Leu Met Phe Ile Arg Asp Ile Gly Leu Lys Phe Ser Phe Phe Val Val
 20 25 30
 Ser Leu Pro Gly Phe Gly Ile Arg Met Met Leu Ala Ser *
 35 40 45

<210> 1132
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1132
 Met Ser Gln Glu Pro Gly Arg Arg His Ser Lys Leu Thr Leu Thr Ala
 1 5 10 15
 Ser Arg Met Ala Pro Cys Leu Trp Val Trp Thr Ser Leu Cys Gln Ala
 20 25 30
 Trp Ser Met Ser Met Gly Ser Leu Ser Met Gln Thr Thr *
 35 40 45

<210> 1133
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 1133
 Met His Ser His Gly Val Ser Tyr Trp Thr Val Arg Thr Val Ile Trp
 1 5 10 15
 Pro Ile Ser Ser Leu Val Ser Lys Ile Thr Thr Trp Glu Phe Asn Glu
 20 25 30
 Val Thr Ser Met Ser Glu His Leu Lys Ser Cys Pro Phe Asn Ile Val
 35 40 45
 Glu His Lys Ser Asp Pro Ile Leu Leu Thr Ser Met Cys His Pro Arg

```

      50              55              60
Glu Gln Ala Arg Glu Ser Leu Leu Ser Thr Phe Arg Ile Arg Pro Arg
 65              70              75              80
Gly Arg Tyr Val Ser Tyr *
              85 86

```

```

<210> 1134
<211> 57
<212> PRT
<213> Homo sapiens

```

```

<400> 1134
Met Glu Ala His Gln Ser Phe Lys His Lys Ser Cys Thr Trp Ala Ile
 1              5              10              15
Thr Val Trp Phe His Phe Val Cys Phe Leu Asn Thr Phe Ser Cys Phe
              20              25              30
Phe Asn Lys Leu Ser Pro Ile Leu Glu Ser Leu Val Val Gly Ser Ile
              35              40              45
Ser Arg His Leu Leu Arg Glu Leu *
 50              55 56

```

```

<210> 1135
<211> 57
<212> PRT
<213> Homo sapiens

```

```

<400> 1135
Met Glu Ala His Gln Ser Phe Lys His Lys Ser Cys Thr Trp Ala Ile
 1              5              10              15
Thr Val Trp Phe His Phe Val Cys Phe Leu Asn Thr Phe Ser Cys Phe
              20              25              30
Phe Asn Lys Leu Ser Pro Ile Leu Glu Ser Leu Val Val Gly Ser Ile
              35              40              45
Ser Arg His Leu Leu Arg Glu Leu *
 50              55 56

```

```

<210> 1136
<211> 105
<212> PRT
<213> Homo sapiens

```

```

<400> 1136
Met Pro Phe Ala Gln Thr Gly Leu Gln Leu Leu Arg Leu Cys Arg
 1              5              10              15
Val Leu His Val Leu Arg Leu Leu Gly Met Leu Arg Glu Gln Met His
              20              25              30
Leu Leu Arg Glu Lys Leu Leu Asp Leu Leu Pro Pro Glu Leu Cys Gln
              35              40              45
Arg Val Pro Arg Ala Ala Thr Ala Lys Gly His Lys Arg Arg Ala Ala
 50              55              60

```

Ala Val Pro Asp Asp Gly Thr Asp Leu Leu Pro Gln Gly Met Arg Thr
 65 70 75 80
 Ala Cys Thr Thr Arg Arg Ile Phe Lys Tyr Asn Thr Glu Pro Phe Ala
 85 90 95
 Ala Phe Leu Phe Ile Leu Asn Met *
 100 104

<210> 1137
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1137
 Met Val Gly Phe Tyr Leu Gln Ser Val Leu Tyr Phe Tyr Phe Ser Gln
 1 5 10 15
 Leu Ile Tyr Leu Gly Asp His Ala Lys Ser Val Asn Ile Val Thr Ser
 20 25 30
 Phe Ile Leu Thr Ala Ala Tyr Val Asn Asn Ser Lys Met His His Thr
 35 40 45
 Val Phe Asn *
 50 51

<210> 1138
 <211> 187
 <212> PRT
 <213> Homo sapiens

<400> 1138
 Met Gln Pro Ile Val Ala Lys Ala Leu Val Val Leu Leu Glu Val His
 1 5 10 15
 Pro Leu Gln Asp Gln Ala Glu Ser Gly Arg Leu Gly His Val His Leu
 20 25 30
 Leu Cys Ala Pro Ala Ala Leu Gln His Ala Leu Arg Gly Ile Thr Leu
 35 40 45
 His Asn Gly His His Gln Ala Asp His Leu Pro Asp Leu Met His His
 50 55 60
 Glu Ala Leu Ala Leu His Pro Asp His Arg Lys Leu Gln Ala Leu Pro
 65 70 75 80
 His Lys Gly Phe Leu Ala Val His Leu Gln Asp Val Ala Ala Gly Thr
 85 90 95
 Gly Ile Leu Arg Pro Leu Leu Arg Gly Glu Ile Val Glu Val Val Arg
 100 105 110
 Ala Leu Val Ala Gly Gln Glu Pro Val Asp Leu Leu Gln Arg Leu Gly
 115 120 125
 Ala Gln Ala Val Gly Leu Ile Leu Asn Val Pro Val Leu Val Arg Lys
 130 135 140
 Gly Lys Arg Gly Gln Gln Val Ala Ile Gly Pro Gly Ile Thr Ser Val
 145 150 155 160
 Leu Gly Val Lys Pro Ala Arg Asp Pro Leu Gln Ser Gln Asn Pro Asn
 165 170 175
 Val Arg Gly Lys Val Ala Val Asp Leu Phe *
 180 185 186

<210> 1139
 <211> 109
 <212> PRT
 <213> Homo sapiens

<400> 1139
 Met Trp Gln Lys Ser Leu Leu Ile Leu Ser Phe Arg Val Ser Phe Pro
 1 5 10 15
 Leu Phe Leu Thr Tyr Asn Tyr Lys Leu Leu Ser Ile Arg Arg Thr Arg
 20 25 30
 Pro Leu Ser Ser Phe Phe Ser Lys Leu Leu Gln Ile Ala Val Asn Ser
 35 40 45
 Ile Asn Ser Leu Phe Ser Ala Gly Lys Val Ala Phe Ser Lys His Val
 50 55 60
 Cys Leu Leu Pro Gly Gly Leu Lys Ser Met Ile Tyr Cys Ser Ser Met
 65 70 75 80
 Cys Leu Lys Gln Leu Leu Arg Ser Phe Lys Gln Glu Ser Ser Lys Gly
 85 90 95
 Ser Val Leu Ile Met Val Leu Val Phe Leu Gln Ile *
 100 105 108

<210> 1140
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1140
 Met Pro Ala Pro Thr Ala Trp Leu Leu Pro Ala Val Ser Thr Cys Ser
 1 5 10 15
 Asn Leu Arg Ala Lys Ala Gly Val Ile Leu Gly Thr Ile Thr Thr Arg
 20 25 30
 Pro Tyr Val His Thr Trp Gly Ser Ala Asp Met Ala Thr Pro Tyr His
 35 40 45
 Leu Gly Pro Phe Trp Thr Leu Gly Thr Asp Lys His Arg Arg Glu Ala
 50 55 60
 Asn Arg Gly Gln Arg Ala Ile Trp Gly Trp Pro Thr Gly Pro Pro Trp
 65 70 75 80
 His Leu *
 82

<210> 1141
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1141
 Met Tyr Gln Trp Gly Ser Ser Ile Ile Leu Ile Leu Trp Pro Leu Ser
 1 5 10 15
 Met Asn Ile Gly Cys Tyr Ser Ile Tyr Leu Lys Met Val Met Leu Leu
 20 25 30

Ser Ser Lys Phe Ser Trp Lys Ser Phe Ser Lys Leu Gln Phe Leu Leu
 35 40 45
 Leu Leu Lys Phe Arg Tyr Met Cys Ile *
 50 55 57

<210> 1142
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1142
 Met Asn Pro His Leu Gly Val Phe Leu Val Leu Val Ser Phe Phe Leu
 1 5 10 15
 Ser Leu Leu Asp Ser Gln Leu His Ser Trp Ile Val Leu His Asn Ser
 20 25 30
 Pro Ser Ser Arg Met Trp Lys Ser Ile Ile Phe Phe Leu *
 35 40 45

<210> 1143
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1143
 Met Leu Trp Ala Leu Ile Arg Ala Ala Leu Ala Gln Leu His Thr Glu
 1 5 10 15
 Glu Pro Lys Lys Arg Lys Glu Glu Lys Met Ser Pro Ala Leu Ser Pro
 20 25 30
 Pro Leu Pro Ser Val Pro Ile Ser Leu Gly Gln Asn Asn Arg Lys Arg
 35 40 45
 Arg Ser His Leu Ser Leu Leu Leu Gln *
 50 55 57

<210> 1144
 <211> 147
 <212> PRT
 <213> Homo sapiens

<400> 1144
 Met Ala Tyr Thr Met Ile Pro Val Leu His Phe Phe Cys Cys Glu Thr
 1 5 10 15
 Ser Ser Leu Val Arg Thr Lys Val Val Trp Glu Ala Ile Asn Met Val
 20 25 30
 Phe Ala Lys Ser Met Asn Gly Gly Pro Asp Arg Cys Ile Ala Val Arg
 35 40 45
 Gln Val Lys Phe Leu Phe Arg Lys Val Ser Phe Ser Glu Lys Ile Asp
 50 55 60
 His Cys Pro Leu His Asp Gly Asn Ile Leu Leu Pro Gly Pro Trp Glu
 65 70 75 80
 Met Ala Pro Tyr Trp Gly Leu Asn Ile Ser Leu Cys His Leu Gln Phe

```

      85              90              95
Arg His Ser Ile Val Ser Leu Ala Arg Cys Ser Leu Gly Glu Gly Gln
      100              105              110
Ser Met Leu Trp Cys Pro Cys Leu Thr Ser Ile Ser Val Asp Met Ala
      115              120              125
Thr Leu Tyr Ile Asn Ala Ser Ser Ser Leu Ser Ser Lys Gly Lys Lys
      130              135              140
Ala Asp *
145 146

```

```

<210> 1145
<211> 103
<212> PRT
<213> Homo sapiens

```

```

<400> 1145
Met Ala Trp Ile Pro Leu Phe Leu Gly Val Leu Ala Tyr Cys Thr Gly
  1          5          10          15
Ser Val Ala Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser
      20          25          30
Pro Gly Lys Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Gly Asp
      35          40          45
Lys Tyr Ala Ser Trp Tyr Gln Gln Lys Ala Gly Gln Ser Pro Val Leu
      50          55          60
Val Ile Tyr Glu Asp Ser Arg Arg Pro Ser Gly Ile His Lys Arg Phe
      65          70          75          80
Tyr Gly Ser Asn Ser Gly Thr Thr Ala Thr Leu Thr Ile Ser Gly Thr
      85          90          95
Gln Ala Met Asp Glu Gly *
      100          102

```

```

<210> 1146
<211> 77
<212> PRT
<213> Homo sapiens

```

```

<400> 1146
Met Pro Leu Leu His Gly Val Tyr Leu Ala Arg Arg Ser Leu Ile Cys
  1          5          10          15
Ile Ser Phe Cys His Leu Cys Val Leu Ser Ile Gly Leu Arg Val Ile
      20          25          30
Val Cys Val Val Gly Ile Ser Glu Asp Arg Lys Arg Ser Ala Ser Ala
      35          40          45
Pro Thr Leu Gly Ile Val Pro Leu His Ala Ser Leu His Gln His Cys
      50          55          60
Ala Pro Asn Gln Ser Asn Pro Cys Ser Trp His Leu *
      65          70          75          76

```

```

<210> 1147
<211> 118
<212> PRT

```


<213> Homo sapiens

<400> 1147

```

Met Asn Pro Ser Ala Ser Leu Val Cys Leu Leu Phe Ala Phe Ser Ser
 1              5              10              15
Cys Arg Ile Trp Ser Val Leu Cys Gln Leu Cys Val Pro Ser Pro Trp
              20              25              30
Pro Ser Pro Leu Cys Leu Cys Pro Gln Thr Asp Val Ala Pro Ile Cys
              35              40              45
Ala Val Gln Pro Ser Leu Phe Cys Leu Gly Ser Arg Glu Pro Leu Trp
              50              55              60
Thr Val Leu Val Gly Ser Cys Pro Leu Arg Ala Phe Thr Asn Leu Ser
              65              70              75              80
Val Arg Pro Pro Pro Gly His His Ser Ile His Leu Leu Thr Trp Leu
              85              90              95
Ala Ser Ser Ser Ala Ala Thr Thr Ala Ala Ser Thr Ala Ser Gly
              100              105              110
Ala Pro His Ser Val *
              115              117

```

<210> 1148

<211> 399

<212> PRT

<213> Homo sapiens

<400> 1148

```

Met Trp Ala Ala Val Gly Gly Phe Leu Phe Ala Pro Arg Cys Phe Leu
 1              5              10              15
Leu Pro Trp Pro Leu Arg Ala Pro Leu Ser Ser Leu Phe Val Leu Pro
              20              25              30
Arg Leu Leu Leu Trp Pro Ile Pro Tyr Pro Val Leu Ala Ser Val Cys
              35              40              45
Pro Cys Val Pro Gly Gly Arg Phe Phe Gly Pro Leu Tyr Pro Arg Asp
              50              55              60
Leu Arg Leu Leu Arg Cys Val Pro Gly Glu Leu Thr Gly Ala Ala Pro
              65              70              75              80
Arg Thr Leu Pro Gly Cys Asp Leu Asn Cys Leu Gly Leu Gly Arg Glu
              85              90              95
Ala Ala Val Pro Arg Leu Leu Arg Leu Thr Arg Asp Pro Ala Arg Pro
              100              105              110
Ser Cys Arg Thr Leu Gly Val His Ala Val Pro Arg Arg Ala Phe Gly
              115              120              125
Phe Tyr Ala Val Pro Arg Arg Asp Pro Arg Phe Tyr Ala Val Pro Arg
              130              135              140
Arg Val Pro Arg Leu Tyr Ala Val Pro His Pro Ala Leu Arg Val Tyr
              145              150              155              160
Ala Val Pro Arg Arg Thr Phe Arg Val Tyr Ala Val Pro His Pro Ala
              165              170              175
Leu Arg Val Tyr Ala Val Pro Arg Arg Ala Leu Gly Leu Tyr Val Val
              180              185              190
Pro Gln Arg Ala Leu Arg Val Tyr Ala Val Pro Arg Arg Thr Phe Arg
              195              200              205
Val Tyr Ala Val Pro His Pro Ala Leu Arg Leu Tyr Ala Val Ala Arg
              210              215              220
Arg Ala Leu Arg Phe Tyr Val Val Pro Gln Arg Ala Leu Arg Val Tyr

```

```

225          230          235          240
Ala Val Pro Arg Leu Pro Gly Arg Ala Thr Phe Arg Asp Leu Arg Pro
          245          250          255
Leu Leu Arg Leu Leu Leu Pro Leu Gly Gly Arg Arg Val Leu Gly Leu
          260          265          270
Pro Leu Ser Leu Pro Ala Gly Leu Ala Leu Arg Ala Ala Ser Arg Ala
          275          280          285
Arg Pro Leu His Leu Leu Arg Ala Ala Cys Leu Leu Pro Ser Leu Gly
          290          295          300
His Leu Gly Thr Leu Arg Gly Ser Leu Leu Gly Leu Ser Leu Ala Val
305          310          315          320
Arg Pro Pro Arg Ala Pro Arg Leu Gly Leu Arg Ala Pro Val Trp Pro
          325          330          335
Ala Ala Ser Cys Leu Leu His Ser Gly Gly Ala Pro Arg Arg Leu Leu
          340          345          350
Cys Ala Leu Ala Pro Leu Arg Pro Phe Cys Leu Pro Ala Arg Gly Ser
          355          360          365
Trp Leu Ser Gly Ser Leu Ser Gln Arg Arg Gly Asp Leu Arg Arg Pro
          370          375          380
Leu Gly Thr Arg Gly Asn Pro Leu Arg Leu Arg Gly Leu Gly His
385          390          395          399

```

```

<210> 1149
<211> 67
<212> PRT
<213> Homo sapiens

```

```

<400> 1149
Met Pro Ser Tyr Phe Lys Thr Cys Ser Leu Phe Thr Leu Leu Ser Ser
 1          5          10          15
Val Phe Leu Val Cys Ile Trp Ile Phe Lys Thr Asn Ile Lys Ser Ser
          20          25          30
Val Ser Glu Ser Pro Pro Asp Ser Gly Leu Gly Gln Val Thr Ala Val
          35          40          45
Tyr Gln Val Gln Cys Leu Cys Trp Ala Lys Asp Cys Asn Tyr Pro Ile
          50          55          60
Cys Ser *
65 66

```

```

<210> 1150
<211> 70
<212> PRT
<213> Homo sapiens

```

```

<400> 1150
Met Leu Val Ser Lys Leu Met Leu Gln Ile Val Met Ala Val Pro His
 1          5          10          15
Tyr Ile Met Pro Val Glu Met Lys Asn Gln Ser Leu Ile Pro Leu Leu
          20          25          30
Leu Glu Ala Arg Ala Asp Pro Thr Ile Lys Asn Lys His Gly Glu Ser
          35          40          45
Ser Leu Asp Ile Ala Arg Arg Leu Lys Phe Ser Gln Ile Glu Leu Met
          50          55          60

```

Leu Arg Lys Ala Leu *
65 69

<210> 1151
<211> 48
<212> PRT
<213> Homo sapiens

<400> 1151
Met Gly Ala Gly Cys Thr Pro Val Val Leu Gly Ala Ala Leu Trp Leu
1 5 10 15
Trp Arg Trp Phe Ser Arg Trp Gly Leu Gly Gly Leu Cys Trp Arg Pro
20 25 30
Cys Thr Cys Thr Pro Cys His Ser Ala Ser Pro Gly Ala Gly Arg *
35 40 45 47

<210> 1152
<211> 64
<212> PRT
<213> Homo sapiens

<400> 1152
Met Lys Asp His Leu Glu Phe Pro Phe Leu Asp Leu Leu Asp Leu Thr
1 5 10 15
Asp Ser Leu Gly Leu Leu Gly Phe Gln Gly Leu Leu Ala Leu Leu Ala
20 25 30
Leu Thr Phe Leu Leu Val Met Arg Tyr Val Asn Gln Ala Leu Gln Ala
35 40 45
Pro Gln Asp Leu Gln Val Ile Lys Asp Ser Lys Glu Asn Lys Glu *
50 55 60 63

<210> 1153
<211> 61
<212> PRT
<213> Homo sapiens

<400> 1153
Met Thr Ala Arg Phe Leu Leu Ala Arg Pro Ala Tyr Ser Ser Ala Leu
1 5 10 15
Leu Arg Gly Leu Gly Gly Pro Arg Thr Pro Leu Ile Gln Phe Ser Arg
20 25 30
Cys Gly Met Met Ser Ile Arg Leu Leu Gly Leu Phe Pro Leu Cys Leu
35 40 45
Cys Ser Val Leu Trp Phe Pro Gln Gln His Ser Leu *
50 55 60

<210> 1154
<211> 75

<212> PRT

<213> Homo sapiens

<400> 1154

```

Met Asp Ser Thr Phe Leu Ala Thr Arg Ala Val Arg Gly Gln Leu Tyr
 1          5          10          15
Leu Trp Ile Ser Met Leu Thr Ile Ala Thr Gly Lys Leu Cys Ala Arg
          20          25          30
Cys Tyr Pro Glu Asn Gln Asp His Ile Ile Gln Met Leu Pro Cys Ser
          35          40          45
Pro Ala Ser Val Ile Leu His Leu Pro Trp Met Met Lys Phe Phe Leu
          50          55          60
Ala Arg His Leu Ile Lys Trp Leu Glu Asn *
          65          70          74

```

<210> 1155

<211> 68

<212> PRT

<213> Homo sapiens

<400> 1155

```

Met Met Ala Lys Ser Val Arg Phe Cys Tyr Val Leu Phe Val Glu Glu
 1          5          10          15
Ile Arg Phe Ala Val Leu Val Val Gln Arg Leu Ala Lys Ser Asp Leu
          20          25          30
Trp Ala Lys Ser Gly Leu Leu Ser Ile Phe Ile Phe Ile Ser Lys Val
          35          40          45
Leu Leu Lys Gln Thr His Leu Leu Val Cys Arg Met Tyr Ile Ala Ala
          50          55          60
Phe Ala Leu *
          65          67

```

<210> 1156

<211> 60

<212> PRT

<213> Homo sapiens

<400> 1156

```

Met Ile Tyr Phe Leu Ser Thr Pro Leu Leu Leu Thr Leu Phe Asn Ile
 1          5          10          15
Leu Met Thr Phe Phe Phe Val Ala Pro Pro Leu Asn Leu Leu Asn Lys
          20          25          30
Thr His Phe Cys Phe Phe Ser Ser Tyr Ser Leu Lys Asp Phe Arg Cys
          35          40          45
Pro Pro Pro Lys Leu Lys Phe Leu Leu His Pro *
          50          55          59

```

<210> 1157

<211> 776

<212> PRT

<213> Homo sapiens

<400> 1157

```

Met Leu Phe Ile Val Thr Ala Leu Leu Cys Cys Gly Leu Cys Asn Gly
 1          5          10          15
Val Leu Ile Glu Thr Glu Ile Val Met Pro Thr Pro Lys Pro Glu
          20          25          30
Leu Trp Ala Glu Thr Asn Phe Pro Leu Ala Pro Trp Lys Asn Leu Thr
          35          40          45
Leu Trp Cys Arg Ser Pro Ser Gly Ser Thr Lys Glu Phe Val Leu Leu
          50          55          60
Lys Asp Gly Thr Gly Trp Ile Ala Thr Arg Pro Ala Ser Glu Gln Val
          65          70          75          80
Arg Ala Ala Phe Pro Leu Gly Ala Leu Thr Gln Ser His Thr Gly Ser
          85          90          95
Tyr His Cys His Ser Trp Glu Glu Met Ala Val Ser Glu Pro Ser Glu
          100          105          110
Ala Leu Glu Leu Val Gly Thr Asp Ile Leu Pro Lys Pro Val Ile Ser
          115          120          125
Ala Ser Pro Thr Ile Arg Gly Gln Glu Leu Gln Leu Arg Cys Lys Gly
          130          135          140
Trp Leu Ala Gly Met Gly Phe Ala Leu Tyr Lys Glu Gly Glu Gln Glu
          145          150          155          160
Pro Val Gln Gln Leu Gly Ala Val Gly Arg Glu Ala Phe Phe Thr Ile
          165          170          175
Gln Arg Met Glu Asp Lys Asp Glu Gly Asn Tyr Ser Cys Arg Thr His
          180          185          190
Thr Glu Lys Arg Pro Phe Lys Trp Ser Glu Pro Ser Glu Pro Leu Glu
          195          200          205
Leu Val Ile Lys Glu Met Tyr Pro Lys Pro Phe Phe Lys Thr Trp Ala
          210          215          220
Ser Pro Val Val Thr Pro Gly Ala Arg Val Thr Phe Asn Cys Ser Thr
          225          230          235          240
Pro His Gln His Met Ser Phe Ile Leu Tyr Lys Asp Gly Ser Glu Ile
          245          250          255
Ala Ser Ser Asp Arg Ser Trp Ala Ser Pro Gly Ala Ser Ala Ala His
          260          265          270
Phe Leu Ile Ile Ser Val Gly Ile Gly Asp Gly Gly Asn Tyr Ser Cys
          275          280          285
Arg Tyr Tyr Asp Phe Ser Ile Trp Ser Glu Pro Ser Asp Pro Val Glu
          290          295          300
Leu Val Val Thr Glu Phe Tyr Pro Lys Pro Thr Leu Leu Ala Gln Pro
          305          310          315          320
Gly Pro Val Val Phe Pro Gly Lys Ser Val Ile Leu Arg Cys Gln Gly
          325          330          335
Thr Phe Gln Gly Met Arg Phe Ala Leu Leu Gln Glu Gly Ala His Val
          340          345          350
Pro Leu Gln Phe Arg Ser Val Ser Gly Asn Ser Ala Asp Phe Leu Leu
          355          360          365
His Thr Val Gly Ala Glu Asp Ser Gly Asn Tyr Ser Cys Ile Tyr Tyr
          370          375          380
Glu Thr Thr Met Ser Asn Arg Gly Ser Tyr Leu Ser Met Pro Leu Met
          385          390          395          400
Ile Trp Val Thr Asp Thr Phe Pro Lys Pro Trp Leu Phe Ala Glu Pro
          405          410          415
Ser Ser Val Val Pro Met Gly Gln Asn Val Thr Leu Trp Cys Arg Gly
          420          425          430
Pro Val His Gly Val Gly Tyr Ile Leu His Lys Glu Gly Glu Ala Thr

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```

      435              440              445
Ser Met Gln Leu Trp Gly Ser Thr Ser Asn Asp Gly Ala Phe Pro Ile
      450              455              460
Thr Asn Ile Ser Gly Thr Ser Met Gly Arg Tyr Ser Cys Cys Tyr His
      465              470              475              480
Pro Asp Trp Thr Ser Ser Ile Lys Ile Gln Pro Ser Asn Thr Leu Glu
      485              490              495
Leu Leu Val Thr Gly Leu Leu Pro Lys Pro Ser Leu Leu Ala Gln Pro
      500              505              510
Gly Pro Met Val Ala Pro Gly Glu Asn Met Thr Leu Gln Cys Gln Gly
      515              520              525
Glu Leu Pro Asp Ser Thr Phe Val Leu Leu Lys Glu Gly Ala Gln Glu
      530              535              540
Pro Leu Glu Gln Gln Arg Pro Ser Gly Tyr Arg Ala Asp Phe Trp Met
      545              550              555              560
Pro Ala Val Arg Gly Glu Asp Ser Gly Ile Tyr Ser Cys Val Tyr Tyr
      565              570              575
Leu Asp Ser Thr Pro Phe Ala Ala Ser Asn His Ser Asp Ser Leu Glu
      580              585              590
Ile Trp Val Thr Asp Lys Pro Pro Lys Pro Ser Leu Ser Ala Trp Pro
      595              600              605
Ser Thr Met Phe Lys Leu Gly Lys Asp Ile Thr Leu Gln Cys Arg Gly
      610              615              620
Pro Leu Pro Gly Val Glu Phe Val Leu Glu His Asp Gly Glu Glu Ala
      625              630              635              640
Pro Gln Gln Phe Ser Glu Asp Gly Asp Phe Val Ile Asn Asn Val Glu
      645              650              655
Gly Lys Gly Ile Gly Asn Tyr Ser Cys Ser Tyr Arg Leu Gln Ala Tyr
      660              665              670
Pro Asp Ile Trp Ser Glu Pro Ser Asp Pro Leu Glu Leu Val Gly Ala
      675              680              685
Ala Gly Pro Val Ala Gln Glu Cys Thr Val Gly Asn Ile Val Arg Ser
      690              695              700
Ser Leu Ile Val Val Val Val Ala Leu Gly Val Val Leu Ala Ile
      705              710              715              720
Glu Trp Lys Lys Trp Pro Arg Leu Arg Thr Arg Gly Ser Glu Thr Asp
      725              730              735
Gly Arg Asp Gln Thr Ile Ala Leu Glu Glu Cys Asn Gln Glu Gly Glu
      740              745              750
Pro Gly Thr Pro Ala Asn Ser Pro Ser Ser Thr Ser Gln Arg Ile Ser
      755              760              765
Val Glu Leu Pro Val Pro Ile *
      770              775

```

<210> 1158

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1158

```

Met Ile Gln Leu Phe Phe Val Leu Tyr Gly Ile Leu Ala Leu Ala Phe
  1              5              10              15
Leu Ser Gly Tyr Tyr Val Thr Leu Ala Ala Gln Ile Leu Ala Val Leu
      20              25              30
Leu Pro Pro Val Met Leu Leu Ile Asp Gly Asn Val Ala Tyr Trp His
      35              40              45

```

Asn Thr Arg Arg Val Glu Phe Trp Asn Gln Met Lys Leu Leu Gly Glu
 50 55 60
 Ser Val Gly Ile Phe Gly Thr Ala Val Ile Leu Ala Thr Asp Gly *
 65 70 75 79

<210> 1159
 <211> 132
 <212> PRT
 <213> Homo sapiens

<400> 1159
 Met Ser Ser Gly Thr Glu Leu Leu Trp Pro Gly Ala Ala Leu Leu Val
 1 5 10 15
 Leu Leu Gly Val Ala Ala Ser Leu Cys Val Arg Cys Ser Arg Pro Gly
 20 25 30
 Ala Lys Arg Ser Glu Lys Ile Tyr Gln Gln Arg Ser Leu Arg Glu Asp
 35 40 45
 Gln Gln Ser Phe Thr Gly Ser Arg Thr Tyr Ser Leu Val Gly Gln Ala
 50 55 60
 Trp Pro Gly Pro Leu Ala Asp Met Ala Pro Thr Arg Lys Asp Lys Leu
 65 70 75 80
 Leu Gln Phe Tyr Pro Ser Leu Glu Asp Pro Ala Ser Ser Arg Tyr Gln
 85 90 95
 Asn Phe Ser Lys Gly Ser Arg His Gly Ser Glu Glu Ala Tyr Ile Asp
 100 105 110
 Pro Thr Ala Ile Lys Tyr Phe Leu Thr Gln Ala Thr Ala Ser Ile Ile
 115 120 125
 Leu Leu Ile Ala
 130 132

<210> 1160
 <211> 167
 <212> PRT
 <213> Homo sapiens

<400> 1160
 Met Val Gly Leu Gly Gly Met Ser Gln Leu Leu Leu Ala Ser Leu Leu
 1 5 10 15
 Pro Pro Val Pro Gln Gly Ser Pro Thr Arg Arg Lys Leu Pro Ala Ser
 20 25 30
 Leu Leu Val Ser Thr Ala Leu Ile Ser Pro Val Cys Val Arg Gly Trp
 35 40 45
 Met Trp Gln Asn Leu Gln Asn Arg Ile His Gly Ser His Thr Ser Ala
 50 55 60
 Arg Arg Val Pro Ser Leu Pro Gly Ala Gly Gln Val Gly Val Arg Trp
 65 70 75 80
 Glu Ala Gly Pro Ala Cys Arg Thr Gln Pro Ser Pro Gln Asn Leu Ala
 85 90 95
 Pro Arg Pro His Pro Ser Ala Ala Gln Leu Ile Glu Asn Ala Ala Leu
 100 105 110
 Arg Ser Ala Met Ser Gly Glu Arg Leu Phe Pro Glu Gly Gln Glu His
 115 120 125
 Leu Gly Pro Leu Val Ala Pro Arg Val Pro Met Gly Gly Ala Leu Cys

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<210> 1161
<211> 84
<212> PRT
<213> Homo sapiens
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```
<210> 1162
<211> 80
<212> PRT
<213> Homo sapiens
```

```
<210> 1163
<211> 71
<212> PRT
<213> Homo sapiens
```

665


```

Ser Leu Leu Leu Phe Leu Arg Lys Ser Phe Lys Phe Tyr Ala Val Ser
      20      25      30
Phe Val Cys Phe Ala Phe Val Ala Phe Trp Asn Asn Leu Gln Lys Ile
      35      40      45
Ile Ala Gln Ala Asn Val Ile Gln Ser Pro Ser Ile Phe Pro Cys Ser
      50      55      60
Ser Ser Thr Phe Lys Leu *
      65      70

```

<210> 1164
 <211> 56
 <212> PRT
 <213> Homo sapiens

```

<400> 1164
Met Glu Thr Ala Val Ile Gly Val Val Val Val Leu Phe Val Val Thr
  1      5      10      15
Val Ala Ile Thr Cys Val Leu Cys Cys Phe Ser Cys Asp Ser Arg Ala
      20      25      30
Gln Asp Pro Gln Gly Gly Pro Gly Arg Ser Phe Thr Val Ala Thr Phe
      35      40      45
Arg Gln Glu Ala Ser Leu Phe Thr
      50      55  56

```

<210> 1165
 <211> 97
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(97)
 <223> Xaa = any amino acid or nothing

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<400> 1165
Met Lys Met Leu Cys Gly Leu Leu Arg Thr Val Gln Gly Val Arg Phe
  1      5      10      15
Pro Gln Leu Thr Arg Ile His Gly Pro Ser Thr Gln Gly His Gln Leu
      20      25      30
Leu Leu Leu Trp Val Gly Val Leu Gln Val Gly Xaa Ser Ser Leu Gly
      35      40      45
Leu Gln Asn Asp Leu Met Gly Pro Ser Leu Gly Arg Gly Pro Pro Pro
      50      55      60
Leu Ala Ala Ser Thr Arg Cys Arg His Val Ala Gln Leu Gly Val Gly
      65      70      75      80
Leu Ser Lys Thr Trp Gln Pro Ser Thr His Gly Ile Ala Ser Ala Pro
      85      90      95  96
*

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<210> 1166
 <211> 48

<212> PRT

<213> Homo sapiens

<400> 1166

Met	Leu	Ile	Phe	Val	Phe	Leu	Phe	Ser	Tyr	Leu	Ile	Ala	Leu	Ala	Gly
1				5					10					15	
Thr	Phe	Ser	Pro	Arg	Leu	Asn	Arg	Ser	Gly	Glu	Ser	Val	His	Pro	Phe
			20					25					30		
Ala	Leu	His	Pro	Val	Leu	Arg	Arg	Lys	His	Pro	Val	Ile	His	Leu	*
		35					40					45		47	

<210> 1167

<211> 274

<212> PRT

<213> Homo sapiens

<400> 1167

Met	Glu	Ala	Pro	Leu	Ser	His	Leu	Glu	Ser	Arg	Tyr	Leu	Pro	Ala	His
1				5					10					15	
Phe	Ser	Pro	Leu	Val	Phe	Phe	Leu	Leu	Leu	Ser	Ile	Met	Met	Ala	Cys
			20					25					30		
Cys	Leu	Val	Ala	Phe	Phe	Val	Leu	Gln	Arg	Gln	Pro	Arg	Cys	Trp	Glu
		35					40					45			
Ala	Ser	Val	Glu	Asp	Leu	Leu	Asn	Asp	Gln	Val	Thr	Leu	His	Ser	Ile
		50				55				60					
Arg	Pro	Arg	Glu	Glu	Asn	Asp	Leu	Gly	Pro	Ala	Gly	Thr	Val	Asp	Ser
		65			70				75					80	
Ser	Gln	Gly	Gln	Gly	Tyr	Leu	Glu	Glu	Lys	Ala	Ala	Pro	Cys	Cys	Pro
			85				90						95		
Ala	His	Leu	Ala	Phe	Ile	Tyr	Thr	Leu	Val	Ala	Phe	Val	Asn	Ala	Leu
		100					105					110			
Thr	Asn	Gly	Met	Leu	Pro	Ser	Val	Gln	Thr	Tyr	Ser	Cys	Leu	Ser	Tyr
		115					120					125			
Gly	Pro	Val	Ala	Tyr	His	Leu	Ala	Ala	Thr	Leu	Ser	Ile	Val	Ala	Asn
		130				135				140					
Pro	Leu	Ala	Ser	Leu	Val	Ser	Met	Phe	Leu	Pro	Asn	Arg	Ser	Leu	Leu
		145			150				155					160	
Phe	Leu	Gly	Val	Leu	Ser	Val	Leu	Gly	Thr	Cys	Phe	Gly	Gly	Tyr	Asn
			165					170					175		
Met	Ala	Met	Ala	Val	Met	Ser	Pro	Cys	Pro	Leu	Leu	Gln	Gly	His	Trp
		180					185					190			
Gly	Gly	Glu	Val	Leu	Ile	Val	Ser	Ile	Arg	Pro	Val	Ala	Ser	Trp	Val
		195				200					205				
Leu	Phe	Ser	Gly	Cys	Leu	Ser	Tyr	Val	Lys	Val	Met	Leu	Gly	Val	Val
		210				215				220					
Leu	Arg	Asp	Leu	Ser	Arg	Ser	Ala	Leu	Leu	Trp	Cys	Gly	Ala	Ala	Val
		225			230				235					240	
Gln	Leu	Gly	Ser	Leu	Leu	Gly	Ala	Leu	Leu	Met	Phe	Pro	Leu	Val	Asn
			245				250						255		
Val	Leu	Arg	Leu	Phe	Ser	Ser	Ala	Asp	Phe	Cys	Asn	Leu	His	Cys	Pro
			260				265					270			
Ala	*														
273															

<210> 1168
 <211> 230
 <212> PRT
 <213> Homo sapiens

<400> 1168
 Met Arg Ile Cys Asn Leu Ile Ser Met Met Leu Leu Leu Cys His Trp
 1 5 10 15
 Asp Gly Cys Leu Gln Phe Leu Val Pro Met Leu Gln Asp Phe Pro Arg
 20 25 30
 Asn Cys Trp Val Ser Ile Asn Gly Met Val Asn His Ser Trp Ser Glu
 35 40 45
 Leu Tyr Ser Phe Ala Leu Phe Lys Ala Met Ser His Met Leu Cys Ile
 50 55 60
 Gly Tyr Gly Arg Gln Ala Pro Glu Ser Met Thr Asp Ile Trp Leu Thr
 65 70 75 80
 Met Leu Ser Met Ile Val Gly Ala Thr Cys Tyr Ala Met Phe Ile Gly
 85 90 95
 His Ala Thr Ala Leu Ile Gln Ser Leu Asp Ser Ser Arg Arg Gln Tyr
 100 105 110
 Gln Glu Lys Tyr Lys Gln Val Glu Gln Tyr Met Ser Phe His Lys Leu
 115 120 125
 Pro Ala Asp Phe Arg Gln Lys Ile His Asp Tyr Tyr Glu His Arg Tyr
 130 135 140
 Gln Gly Lys Met Phe Asp Glu Asp Ser Ile Leu Gly Glu Leu Asn Gly
 145 150 155 160
 Pro Leu Arg Glu Glu Ile Val Asn Phe Asn Cys Arg Lys Leu Val Ala
 165 170 175
 Ser Met Pro Leu Phe Ala Asn Ala Asp Pro Asn Phe Val Thr Ala Met
 180 185 190
 Leu Thr Lys Leu Lys Phe Glu Val Phe Gln Pro Gly Asp Tyr Ile Ile
 195 200 205
 Pro Arg Arg His His Arg Glu Glu Asp Val Leu His Pro Ala Arg Arg
 210 215 220
 Gly Gln Arg Ala His *
 225 229

<210> 1169
 <211> 213
 <212> PRT
 <213> Homo sapiens

<400> 1169
 Met Ala His Phe Thr Trp Ala His Leu Arg Val Leu Thr Leu Phe Leu
 1 5 10 15
 Leu Gln Val Gly Leu Leu Asp Asp Val His Gln Leu Leu Gly Pro Gln
 20 25 30
 Ala Asp Glu Asp Ser Leu Ser Ile Phe Thr Val Met Pro Ala Leu His
 35 40 45
 Gln Ser Gln Glu Gln Leu Gly Gly Ile Val Leu Glu Leu Gln His Gln
 50 55 60
 Ile His Ala Val Leu Ala Gln Gly Ala Asp Val Ile Glu Asp Gln Cys
 65 70 75 80
 Gly Asp Asp Val Tyr Ala Ile Gly Leu Val Ser His Asn Ala Ser Leu

```

      85              90              95
Val Leu Met Ala Gly Ala Leu Ala Val Leu Ser Glu Gly Leu Gln Gly
      100              105              110
Leu Asp Asp Glu Ala His Val Val Leu Ile Asp Val Glu Pro Gln Gln
      115              120              125
Pro Gln Ala Ala Arg Gly Ala Ala Ala His Asp Val Gln Glu Leu Gln
      130              135              140
Arg Leu Ala Tyr Gln Val Val Val Gly Phe Val Val Leu Thr Ala Gln
      145              150              155              160
Glu Val Leu Gln Val Pro Val Val Val Leu Thr Gln Gln Leu Gln Lys
      165              170              175
Ala Gln Asp Gly Leu His Asp Glu His Gly Cys Ala His Leu Thr Ala
      180              185              190
Leu His Thr Phe Ala His Leu Val Pro Pro Ala Gln Ala Gly Ala Gln
      195              200              205
Arg Val Ala Gly *
      210              212

```

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<210> 1170
<211> 51
<212> PRT
<213> Homo sapiens

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<400> 1170
Met Tyr Ser Leu Val Leu Thr Phe Leu Val Ser Phe Cys Ala Leu Ser
  1              5              10              15
Lys Thr Phe Leu Asp His Trp Phe Gln Met Phe Ile Tyr Tyr Ile Leu
      20              25              30
Phe Lys Asp Ser Glu Ile Gly Phe Cys His Pro Leu Leu Tyr Val Leu
      35              40              45
Phe His *
      50

```

```

<210> 1171
<211> 157
<212> PRT
<213> Homo sapiens

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```

<400> 1171
Met Leu Val Pro Leu Asn Leu Cys Leu Gln Ser Thr Leu Ala Leu Val
  1              5              10              15
Ser Leu Pro Leu Pro Gly Ile Gly Arg Ala Phe Cys Glu Trp Leu Ser
      20              25              30
Gly Thr Phe Lys Ala Arg Arg Gln Gly Pro Lys Ala Lys Arg Glu Leu
      35              40              45
Trp Asp Val Pro Ser Pro Val Arg Gly Trp Pro Trp Gly Phe Arg Leu
      50              55              60
Arg Gly Val Pro Gly Pro Val Ser Pro Ala Phe Gly Pro Phe Gly Glu
      65              70              75              80
Phe Gly Glu Glu Val Pro Thr Ala Arg Pro Gly Asp Val Arg Gly Ala
      85              90              95
Ala Leu Thr Phe Ile Val Gly Val Ser Ser Glu Val Ser Val Gln Arg
      100              105              110

```

Arg Ser Ala Gly Arg Ser His Arg Gly Arg Arg Arg Arg Ala Ser Cys
 115 120 125
 Thr Ala Ala Pro Gly Gly Gly Val Thr Arg Arg Trp Lys Glu Tyr Cys
 130 135 140
 Thr Gln Arg Ile Asn Asn Leu Val Lys Pro Phe Ser *
 145 150 155 156

<210> 1172
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 1172
 Met Asn Pro Tyr Ile Ser Ile Ile Val Phe Ile Val Phe Leu Cys Ser
 1 5 10 15
 Glu Asn Tyr Pro Trp Asn Asn Met Leu Arg Ile Thr Gly Ser Ser Pro
 20 25 30
 Tyr Leu His Phe Leu Ser Val Leu Gly Val Leu Val Asn Ser Tyr Val
 35 40 45
 Leu Ile Leu Phe Asn Ser Glu Phe Leu Thr Gln His Phe Arg Glu Arg
 50 55 60
 Ile Gln Ala Gly *
 65 68

<210> 1173
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 1173
 Met Cys Ser Leu Lys Phe Trp Ile Cys Phe Cys Gln Ala Val Ser Met
 1 5 10 15
 His Leu Cys Ala Thr Gln Leu Ser Val Ser Leu Pro Ala Gly Ile Ser
 20 25 30
 Met Phe Val Ser Gly Leu Val Cys Asp Ile Cys Val Trp Ser Gly Ser
 35 40 45
 Gly Met Thr His Pro Tyr Trp Ser Arg Met Arg Val Glu Met Met Val
 50 55 60
 Ala Gly Cys Phe Arg Glu Arg Asp Ala His *
 65 70 74

<210> 1174
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1174
 Met Leu Ser Ser Phe Phe Lys Ser Cys Phe Cys Val Ser Phe Trp Thr
 1 5 10 15
 Leu Ser Ile Ala Thr Ser Ser Asn Leu Leu Ile Phe Ser Ser Ala Ile

```

      20      25      30
Ser Asn Leu Leu Leu Ile Leu Ser Ser Val Phe Ser Ile Leu Asp Ile
      35      40      45
Val Val Phe Ile Thr Arg Ser Met Ile Trp Phe Cys Phe His Pro Cys
      50      55      60
Ile Tyr Ile Thr Cys Pro Val Phe His Ser Ala Ser *
      65      70      75 76

```

<210> 1175
 <211> 59
 <212> PRT
 <213> Homo sapiens

```

      <400> 1175
Met Ser Phe Ala Phe Ser Leu Trp Tyr Pro Phe Leu Arg Asp Leu Arg
  1      5      10      15
Ser Cys Phe Lys Leu Ser Lys Leu Ser Cys His Ser Pro Ile Ser Phe
      20      25      30
Val Gln Tyr Thr Thr Met Ser Thr Arg Val Ser Cys Leu Asn Leu Leu
      35      40      45
Tyr Pro His Leu Arg Val Val Ser Ile His Ser
      50      55      59

```

<210> 1176
 <211> 55
 <212> PRT
 <213> Homo sapiens

```

      <400> 1176
Met His Leu Leu Cys Ser Gly His Lys Leu Cys Leu Cys Ile Val Tyr
  1      5      10      15
Ile Ser Phe Phe Leu Phe Phe Lys Val Tyr Gly Phe Cys Phe Leu His
      20      25      30
Ala Asn Ile Val Asn Tyr Thr Glu Asp Thr Thr Asp Ser Ile Tyr Lys
      35      40      45
Val Tyr Arg Asn Ile Ile *
      50      54

```

<210> 1177
 <211> 86
 <212> PRT
 <213> Homo sapiens

```

      <400> 1177
Met Leu Ser Met Leu Leu Arg Ala Val Phe Cys Cys Cys Arg Arg Leu
  1      5      10      15
His Leu Val Ser Ser Ile Leu Phe Cys Cys Ser Arg Asn Arg Thr Leu
      20      25      30
Ser Met Lys Glu Ala Asn Leu Leu Arg Val Leu Ile Cys Ser Phe
      35      40      45

```

Ser Trp Val Arg Thr Ala Trp Met Leu Gly Ser Thr Ser Arg Thr Arg
 50 55 60
 Gly Leu Ser Arg Leu Trp Leu Thr Val Thr Ala Val Met Pro Pro Met
 65 70 75 80
 Pro Leu Ala Pro Pro *
 85

<210> 1178
 <211> 189
 <212> PRT
 <213> Homo sapiens

<400> 1178
 Met Met Pro Leu Leu Ser Leu Ile Phe Ser Ala Leu Phe Ile Leu Phe
 1 5 10 15
 Gly Thr Val Ile Val Gln Ala Phe Ser Asp Ser Asn Asp Glu Arg Glu
 20 25 30
 Ser Ser Pro Pro Glu Lys Glu Glu Ala Gln Glu Lys Thr Gly Lys Thr
 35 40 45
 Glu Pro Ser Phe Thr Lys Glu Asn Ser Ser Lys Ile Pro Lys Lys Gly
 50 55 60
 Phe Val Glu Val Thr Glu Leu Thr Asp Val Thr Tyr Thr Ser Asn Leu
 65 70 75 80
 Val Arg Leu Arg Pro Gly His Met Asn Val Val Leu Ile Leu Ser Asn
 85 90 95
 Ser Thr Lys Thr Ser Leu Leu Gln Lys Phe Ala Leu Glu Val Tyr Thr
 100 105 110
 Phe Thr Gly Ser Ser Cys Leu His Phe Ser Phe Leu Ser Leu Asp Lys
 115 120 125
 His Arg Glu Trp Leu Glu Tyr Leu Leu Glu Phe Ala Gln Asp Ala Ala
 130 135 140
 Pro Ile Pro Asn Gln Tyr Asp Lys His Phe Met Glu Arg Asp Tyr Thr
 145 150 155 160
 Gly Tyr Val Leu Ala Leu Asn Gly His Lys Lys Tyr Phe Cys Leu Phe
 165 170 175
 Lys Pro Gln Lys Thr Val Glu Glu Gly Gly Lys Pro *
 180 185 188

<210> 1179
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 1179
 Met Ile Cys Lys Tyr Phe Phe Leu Ile Leu Trp Val Val Phe Ser Phe
 1 5 10 15
 Phe Phe Met Phe Leu Asp Ala Gln Lys Phe Ile Ile Leu Met Lys Ser
 20 25 30
 Asn Ser Ser Phe Leu Leu Leu Leu His Met Leu Leu Glu Ser Tyr Leu
 35 40 45
 Arg Asn His Cys Gln Ile *
 50 54

<210> 1180
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 1180
 Met Ala Phe Leu Leu Ser Thr Leu Leu Asn His Tyr Leu Ala Cys Lys
 1 5 10 15
 His Ser Ser Glu Leu Trp Leu Gln Ser Ser Leu Asn Asn Leu Gly Lys
 20 25 30
 Lys Lys Asp Lys Ala Tyr Ile Phe Thr Val Leu Ala Leu Lys His Ile
 35 40 45
 Pro Gln Met Pro Leu Arg Ile Tyr Phe Val Leu Gly Gln Ser Trp Trp
 50 55 60
 Leu Met Pro Val Ile Pro Ala Ile Trp Glu Ala Glu Ala Arg Thr Ala
 65 70 75 80
 *

<210> 1181
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 1181
 Met Asp Glu Val His Val Leu Gly Leu Ala Leu Leu Thr Val Leu Ile
 1 5 10 15
 Glu Leu Val Ser Pro Leu Asp Ser Leu Arg Arg His Ser Cys Tyr Ile
 20 25 30
 Thr His Thr Phe Ser Cys Asn His Thr Asn Ser His Phe Tyr Ile Leu
 35 40 45
 Ser Ile Ser Cys Thr Asn Trp Gly Leu Lys Val Tyr Lys Ile Phe Leu
 50 55 60
 Ser Cys Glu Phe *
 65 68

<210> 1182
 <211> 430
 <212> PRT
 <213> Homo sapiens

<400> 1182
 Met Ile Thr Lys Thr Pro Ala Gln Leu Arg Ser Val Ala Thr Ile Leu
 1 5 10 15
 Lys Thr Leu Cys Leu Ala Ser Pro Thr Val Ala Asn Val Lys Ala Pro
 20 25 30
 Pro Gln Val Ala Val Ala Ala Gly Thr Pro Asn Thr Ser Gly Ser Ile
 35 40 45
 His Glu Asn Pro Pro Lys Ala Lys Ala Thr Val Asn Val Lys Gln Ala
 50 55 60

Ala Lys Val Val Lys Ala Ser Ser Pro Ser Tyr Leu Ala Glu Gly Lys
 65 70 75 80
 Ile Arg Cys Leu Ala Gln Pro His Pro Gly Thr Gly Val Pro Arg Ala
 85 90 95
 Ala Ala Glu Leu Pro Leu Glu Ala Glu Lys Ile Lys Thr Gly Thr Gln
 100 105 110
 Lys Gln Ala Lys Thr Asp Met Ala Phe Lys Thr Ser Val Ala Val Glu
 115 120 125
 Met Ala Gly Ala Pro Ser Trp Thr Lys Val Ala Glu Glu Gly Asp Lys
 130 135 140
 Pro Pro His Gly Pro Arg Cys Pro Asn His Ala Cys Gln Arg Leu Gly
 145 150 155 160
 Gly Leu Ser Ala Pro Pro Trp Ala Lys Pro Glu Asp Arg Gln Thr Gln
 165 170 175
 Pro Gln Pro His Gly His Val Pro Gly Lys Thr Thr Gln Gly Gly Pro
 180 185 190
 Cys Pro Ala Ala Cys Glu Val Gln Gly Met Leu Val Pro Pro Met Ala
 195 200 205
 Pro Thr Gly His Ser Thr Cys Asn Val Glu Ser Trp Gly Asp Asn Gly
 210 215 220
 Ala Thr Arg Ala Gln Pro Ser Met Pro Gly Gln Ala Val Pro Cys Gln
 225 230 235 240
 Glu Asp Thr Val Gly Ser Leu Leu Ala Ser Leu Cys Ala Glu Val Ala
 245 250 255
 Gly Val Leu Ala Ser Gln Glu Asp Leu Arg Thr Leu Leu Ala Lys Ala
 260 265 270
 Leu Ser Gln Gly Glu Val Trp Ala Ala Leu Asn Gln Ala Leu Ser Lys
 275 280 285
 Glu Val Leu Gly Ala Thr Val Thr Lys Ala Leu Pro Gln Ser Met Leu
 290 295 300
 Ser Met Ala Leu Val Lys Ala Leu Ser Trp Ser Glu Leu Arg Leu Thr
 305 310 315 320
 Leu Ser Arg Ala Leu Ser Arg Gly Glu Leu Arg Ala Glu Leu Thr Lys
 325 330 335
 Val Met Gln Gly Lys Leu Ala Glu Val Leu Ser Lys Ala Leu Thr Glu
 340 345 350
 Glu Glu Trp Val Ala Leu Ser Gln Ala Leu Cys Gln Gly Glu Leu Gly
 355 360 365
 Ala Leu Leu Ser Gln Ser Trp Cys Arg Val Ala Leu Arg Thr Gly Thr
 370 375 380
 Ile Leu Pro Lys Ala Ala Ser Lys Ser Thr Gly Ser Gly Val Thr Lys
 385 390 395 400
 Thr Pro Ala Leu Val Lys Val Ala Cys Arg Arg Ser Pro Ser Ala Ala
 405 410 415
 Trp Gly Pro Ser Leu Gly Pro Val Arg Pro Gln Thr Ser Lys
 420 425 430

<210> 1183

<211> 53

<212> PRT

<213> Homo sapiens

<400> 1183

Met Thr Phe Ile Leu Ser Arg Pro Pro Phe Phe Phe Leu Phe Ser Lys
 1 5 10 15
 Arg Ser Cys Ser Gly Ala Arg Trp Ser Arg Trp Pro Gln Phe Gly Tyr

20 25 30
 Ser Thr Ser Pro Gly Ser Met Phe Phe Ser Ser Pro Pro Ser Arg
 35 40 45
 Gly Ile Pro Ala *
 50 52

<210> 1184
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1184
 Met Ser Met Leu His Trp Ile His Phe Ile Leu His Val Ser Ile Val
 1 5 10 15
 Leu Lys Phe Leu Ser Val Lys Cys Ser Ile Ile Tyr Lys Lys Ser Phe
 20 25 30
 Ala Ser Ser Ala Phe Phe Leu Val Gln Ala Ser Phe Phe His Ile Met
 35 40 45
 Leu Ser Gln Leu Tyr Phe Gln *
 50 55

<210> 1185
 <211> 294
 <212> PRT
 <213> Homo sapiens

<400> 1185
 Met Pro Tyr Val Thr Glu Ala Thr Arg Val Gln Leu Val Leu Pro Leu
 1 5 10 15
 Leu Val Ala Glu Ala Ala Ala Pro Ala Phe Leu Glu Ala Phe Ala
 20 25 30
 Ala Asn Val Leu Glu Pro Arg Glu His Ala Leu Leu Thr Leu Leu Leu
 35 40 45
 Val Tyr Gly Pro Arg Glu Gly Gly Arg Gly Ala Pro Asp Pro Phe Leu
 50 55 60
 Gly Val Lys Ala Ala Ala Glu Leu Glu Arg Arg Tyr Pro Gly Thr
 65 70 75 80
 Arg Leu Ala Trp Leu Ala Val Arg Ala Glu Ala Pro Ser Gln Val Arg
 85 90 95
 Leu Met Asp Val Val Ser Lys Lys His Pro Val Asp Thr Leu Phe Phe
 100 105 110
 Leu Thr Thr Val Trp Thr Arg Pro Gly Pro Glu Val Leu Asn Arg Cys
 115 120 125
 Arg Met Asn Ala Ile Ser Gly Trp Gln Ala Phe Phe Pro Val His Phe
 130 135 140
 Gln Glu Phe Asn Pro Ala Leu Ser Pro Gln Arg Ser Pro Pro Gly Pro
 145 150 155 160
 Pro Gly Ala Gly Pro Asp Pro Pro Ser Pro Gly Ala Asp Pro Ser
 165 170 175
 Arg Gly Ala Pro Ile Gly Gly Arg Phe Asp Arg Gln Ala Ser Ala Glu
 180 185 190
 Gly Cys Phe Tyr Asn Ala Asp Tyr Leu Ala Ala Arg Ala Arg Leu Ala
 195 200 205

Gly Glu Leu Ala Gly Gln Glu Glu Glu Glu Ala Leu Glu Gly Leu Glu
 210 215 220
 Val Met Asp Val Phe Leu Arg Phe Ser Gly Leu His Leu Phe Arg Ala
 225 230 235 240
 Val Glu Pro Gly Leu Val Gln Lys Phe Ser Leu Arg Asp Cys Ser Pro
 245 250 255
 Arg Leu Ser Glu Glu Leu Tyr His Arg Cys Arg Leu Ser Asn Leu Glu
 260 265 270
 Gly Leu Gly Gly Arg Ala Gln Leu Ala Met Ala Leu Phe Glu Gln Glu
 275 280 285
 Gln Ala Asn Ser Thr *
 290 293

<210> 1186
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1186
 Met Met Tyr Ile Leu Leu Val Phe Leu Thr Leu Trp Leu Leu Ile Glu
 1 5 10 15
 Met Ile His Cys Leu Gln Asn Gly Asp His Arg Arg Thr Arg Pro Pro
 20 25 30
 Thr Glu Thr Gly Trp Leu Pro Leu Arg Phe His Leu Arg Thr Gly Lys
 35 40 45
 Ile Leu Arg Tyr Leu Arg Gly Glu *
 50 55 56

<210> 1187
 <211> 191
 <212> PRT
 <213> Homo sapiens

<400> 1187
 Met Asp Leu Asp Asn Ala Lys Tyr Ser Leu Leu Gly Phe Ala Leu Phe
 1 5 10 15
 Trp Val Val Val Gly Phe Phe Phe Val Cys Leu Phe Trp Phe Leu Val
 20 25 30
 Phe Leu Pro Trp Cys Lys Thr Val Glu Ser Cys Leu Phe Thr Gly Leu
 35 40 45
 Gly Ser Ile Glu Val Cys Val Ser Ser Val Arg Phe Leu Leu Arg Thr
 50 55 60
 Ile Cys Ile Phe Asn Asn Ser Thr Ser Ser Arg Pro Ser Arg Arg Asn
 65 70 75 80
 Glu Arg Gly Leu Val Ser Ser Pro Glu Leu Ala Leu Glu Cys Val His
 85 90 95
 Leu Ala Ala His Gly Leu Val Ala Leu Arg Gly Leu Ile Gln Leu Pro
 100 105 110
 Leu Gln Leu Pro Ala Val Gly Val Asp Ala Leu Gly Leu Leu Leu Cys
 115 120 125
 Leu Leu Gln Leu Pro Leu Glu Leu Leu Asp Pro Gly Ile Ala Phe Leu
 130 135 140
 Cys Leu Leu Leu Val Leu Leu Gly His Leu Ala Leu Val Leu His Leu

145 150 155 160
 Gln Gln Asp Phe Leu Gln Leu Leu Val Phe Leu Leu Gln Arg Leu Gly
 165 170 175
 Gly Arg Leu Phe Leu Ser Gly Leu Leu Leu Asp Leu Leu Leu *
 180 185 190

<210> 1188
 <211> 216
 <212> PRT
 <213> Homo sapiens

<400> 1188
 Met Ser Pro Pro Leu Leu Leu Leu Pro Leu Leu Leu Leu Leu Pro Leu
 1 5 10 15
 Leu Asn Val Glu Pro Ala Gly Ala Thr Leu Ile Arg Ile Pro Leu Arg
 20 25 30
 Gln Val His Pro Gly Arg Arg Thr Leu Asn Leu Leu Arg Gly Trp Gly
 35 40 45
 Lys Pro Ala Glu Leu Pro Lys Leu Gly Ala Pro Ser Pro Gly Asp Lys
 50 55 60
 Pro Ala Ser Val Pro Leu Ser Lys Phe Leu Asp Ala Gln Tyr Phe Gly
 65 70 75 80
 Glu Ile Gly Leu Gly Thr Pro Pro Gln Asn Phe Thr Val Ala Phe Asp
 85 90 95
 Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Arg Arg Cys His Phe Phe
 100 105 110
 Ser Val Pro Cys Trp Phe His His Arg Phe Asn Pro Asn Ala Ser Ser
 115 120 125
 Ser Phe Lys Pro Ser Gly Thr Lys Phe Ala Ile Gln Tyr Gly Thr Gly
 130 135 140
 Arg Val Asp Gly Ile Leu Ser Glu Asp Lys Leu Thr Ile Gly Gly Ile
 145 150 155 160
 Lys Gly Ala Ser Val Ile Phe Gly Glu Ala Leu Trp Gly Ile Gln Pro
 165 170 175
 Gly Ser Ser Leu Phe Pro Ala Pro Met Gly Tyr Trp Gly Leu Gly Phe
 180 185 190
 Pro Ile Leu Val Leu Trp Glu Gly Ile Ser Ala Pro Ala Gly Cys Thr
 195 200 205
 Gly Gly Ala Gly Ala Ile Gly *
 210 215

<210> 1189
 <211> 176
 <212> PRT
 <213> Homo sapiens

<400> 1189
 Met Ala Leu Arg Gly Ala Leu Gln Ser Gln Ser Gly Leu Leu Ser Leu
 1 5 10 15
 Leu Leu Leu Gly Leu Gly Asp Lys Asp Pro Val Val Arg Cys Ser Ala
 20 25 30
 Ser Phe Ala Val Gly Asn Ala Ala Tyr Gln Ala Gly Pro Leu Gly Pro
 35 40 45

```

Ala Leu Ala Ala Ala Val Pro Ser Met Thr Gln Leu Leu Gly Asp Pro
  50                      55                      60
Gln Ala Gly Ile Arg Arg Asn Val Ala Ser Ala Leu Gly Asn Leu Gly
  65                      70                      75                      80
Pro Glu Gly Leu Gly Glu Glu Leu Leu Gln Cys Glu Val Pro Gln Arg
                      85                      90                      95
Leu Leu Glu Met Ala Cys Gly Asp Pro Gln Pro Asn Val Lys Glu Ala
                      100                    105                    110
Ala Leu Ile Ala Leu Arg Ser Leu Gln Gln Glu Pro Gly Ile His Gln
                      115                    120                    125
Val Leu Val Ser Leu Gly Ala Ser Glu Lys Leu Ser Leu Leu Ser Leu
                      130                    135                    140
Gly Asn Gln Ser Leu Pro His Ser Ser Pro Arg Pro Ala Ser Ala Lys
  145                    150                    155                    160
His Cys Arg Lys Leu Ile His Leu Leu Arg Pro Ala His Ser Met *
                      165                      170                      175

```

<210> 1190
 <211> 58
 <212> PRT
 <213> Homo sapiens

```

<400> 1190
Met Ala Gly Thr Ala Gln Leu Leu Gly Leu Lys Gln Leu Ile Gly Leu
  1                      5                      10                      15
Glu Leu Leu Thr Ala Gln Cys Gly Gln Ile Thr Gly Tyr Arg Asp Arg
                      20                      25                      30
Arg Glu Glu Leu Leu Pro Pro Arg Phe Leu Ala Thr Gly Pro Pro Ser
                      35                      40                      45
Cys His Pro Pro Ser Gln Thr Val Pro *
  50                      55                      57

```

<210> 1191
 <211> 88
 <212> PRT
 <213> Homo sapiens

```

<400> 1191
Met Gly Ile Cys Leu Thr Trp Lys Pro Pro Thr Gly Val Ser Val Ile
  1                      5                      10                      15
Leu Ile Leu Leu Ser Glu Leu His Met Lys Ser Pro Gly Arg Leu Lys
                      20                      25                      30
Pro Lys Ser Ser Pro His Phe Ser Thr Val Leu Thr Pro Leu Thr Phe
                      35                      40                      45
Met Tyr Pro Gly Leu Ala Leu Leu His Ser Leu Tyr Trp His Trp Gln
  50                      55                      60
Glu Asn Gly Glu Ile Leu Cys Arg Ala Ala Glu Pro Lys Phe Ala Gln
  65                      70                      75                      80
Glu Ser Lys Cys Thr Ile Tyr *
                      85                      87

```

<210> 1192
 <211> 136
 <212> PRT
 <213> Homo sapiens

<400> 1192
 Met Val Cys Leu Arg Leu Pro Gly Gly Ser Cys Met Ala Val Leu Thr
 1 5 10 15
 Val Thr Leu Met Val Leu Ser Ser Pro Leu Ala Leu Ala Gly Asp Thr
 20 25 30
 Arg Pro Arg Phe Leu Glu Tyr Ser Thr Ser Glu Cys His Phe Phe Asn
 35 40 45
 Gly Thr Glu Arg Val Arg Tyr Leu Asp Arg Tyr Phe His Asn Gln Glu
 50 55 60
 Glu Asn Val Arg Phe Asp Ser Asp Val Gly Glu Phe Arg Ala Val Thr
 65 70 75 80
 Glu Leu Gly Arg Pro Asp Ala Glu Tyr Trp Asn Ser Gln Lys Asp Leu
 85 90 95
 Leu Gly Thr Ala Arg Arg Thr Ser Trp Ser Arg Ser Gly Ala Gly Trp
 100 105 110
 Thr Thr Thr Ala Asp Thr Thr Thr Gly Leu Trp Arg Ala Ser Gln Cys
 115 120 125
 Ser Gly Glu Ser Ile Leu Arg *
 130 135

<210> 1193
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 1193
 Met Leu Ala Ser Arg Gln Ala Cys Cys Pro Pro Val Ser Ser Leu Phe
 1 5 10 15
 Leu Pro Leu Ser Pro Thr Leu Ser Gly Phe Phe Thr Val Cys Ser Val
 20 25 30
 Ser His Leu His Val Pro Arg Gly Pro Ala Arg Leu Cys Pro Arg Met
 35 40 45
 Ser His Gly Ser Pro Ser Gly Leu Pro Ala Glu Pro Ser Glu His Gly
 50 55 60
 Cys Leu Leu Val Val Gly Leu Gln Gln Asn Cys Thr Arg Leu Thr Ser
 65 70 75 80
 Pro Ile Leu Ser Ser Arg Gly Leu Arg Val Gln Arg Arg Val Asn Leu
 85 90 95
 Ala Asp *
 98

<210> 1194
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1194

Met Phe Ser Pro Ser Phe Gln Gly Ile Ile Thr Lys Val Arg Cys Val
 1 5 10 15
 Cys Val Ser Leu Ser Leu Cys Val Cys Val Cys Val Cys Val
 20 25 30
 Cys Val Tyr Lys Glu Pro Gly Met Arg Ala Gly Arg Gly Gly Ser Arg
 35 40 45
 Leu *
 49

<210> 1195
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1195
 Met Gln Gly Val Arg Val Ser Phe Gly Trp Ala Met Gly Leu Ala Trp
 1 5 10 15
 Gly Ser Cys Ala Leu Glu Ala Phe Ser Gly Thr Leu Leu Leu Ser Ala
 20 25 30
 Ala Trp Thr Leu Ser Leu Ser Pro Ile Cys Gly His Leu Ser Pro
 35 40 45
 Gln Gln Val Gly Gly Arg Gly Gly Asp *
 50 55 57

<210> 1196
 <211> 132
 <212> PRT
 <213> Homo sapiens

<400> 1196
 Met Leu Pro Asn Ser Ser Ser Leu Trp Leu Val Met Arg Ile Leu Ile
 1 5 10 15
 Phe Cys Val Ile Pro Ala Gly Gly Val Leu Gly Ala Pro Thr Ala Ala
 20 25 30
 Gly Leu Arg Pro Thr Gly Asp Val Ala Leu Arg Arg Pro Ala Gly Ser
 35 40 45
 Val Glu Pro Ser Gly Ser Arg Gly Leu Arg Ala Ser Val Cys Gln Arg
 50 55 60
 Leu Ser Met Phe Leu Ala His Phe Leu Arg Gly His Phe Leu Trp Trp
 65 70 75 80
 Ile Leu Asp Gly Gln Arg Leu Gly Phe Pro Leu Ser Leu Ala Thr Trp
 85 90 95
 Asn Arg Arg Lys Lys Ser Leu Gln His Leu Leu His Lys His Val Leu
 100 105 110
 Pro Val Arg Arg His Ala Gly Pro Cys Arg Gly Pro Gln Thr Thr Ala
 115 120 125
 Arg Gly Pro Arg
 130 132

<210> 1197
 <211> 64

<212> PRT
 <213> Homo sapiens

<400> 1197
 Met Pro Tyr Leu Ile Leu Phe Phe Ala Val Tyr Ile Leu Tyr Lys Ile
 1 5 10 15
 Leu Val Lys Val His Leu Phe Ile Ala Glu Ile Ala Leu Tyr Asp Phe
 20 25 30
 Leu Lys Phe Phe Glu Leu Tyr Gly Ile Cys Met Phe Lys Thr Leu Thr
 35 40 45
 Cys Leu Val Val Thr Thr Leu Ile Phe Ile Asn Leu Leu Ser Leu *
 50 55 60 63

<210> 1198
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1198
 Met Leu Gly Pro Pro Glu Ala Arg Leu Ser Leu Cys Ile Leu Leu Trp
 1 5 10 15
 Ile Ser Ile Leu Cys Pro Trp Tyr Arg Phe Thr Leu Tyr Cys Ser Ser
 20 25 30
 Trp Pro Tyr Pro Ile Phe Asp Ser Gly Tyr Arg Pro Leu Phe Gly Thr
 35 40 45
 Thr Leu Leu Phe *
 50 52

<210> 1199
 <211> 50
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(50)
 <223> Xaa = any amino acid or nothing

<400> 1199
 Met Leu Arg Leu Gly Leu Cys Ala Ala Ala Leu Leu Cys Val Cys Arg
 1 5 10 15
 Pro Gly Ala Val Arg Ala Asp Cys Trp Leu Ile Glu Gly Asp Lys Gly
 20 25 30
 Tyr Val Trp Leu Ala Ile Cys Asn Gln Asn Gln Pro Ala Tyr Glu Thr
 35 40 45
 Xaa Pro
 50

<210> 1200
 <211> 49
 <212> PRT

<213> Homo sapiens

<400> 1200

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Met Gly Trp Ser Cys Leu Ala Ile Leu Ser Ser Ala Ile Gly His Leu
 1          5          10          15
Ile Cys Leu Trp Pro Phe Ala Met Val Val Ala Leu Phe Pro Tyr Leu
          20          25          30
Gly Tyr Phe Ser Gly Ser Leu Ser Thr Gln Ile Gly Ser Asp Leu Pro
          35          40          45          48

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<210> 1201

<211> 46

<212> PRT

<213> Homo sapiens

<400> 1201

```

Met Trp Ala Gly Tyr Val Ile Tyr Thr Leu Phe Cys Arg Phe Ser Phe
 1          5          10          15
Ser Leu Ile Ser Ile Arg Ile Arg Lys Leu Gly Ser Ile Gly Phe Glu
          20          25          30
Leu Pro Leu Gly Asn Asn Ser Gln Leu Gly Cys Pro Leu *
          35          40          45

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<210> 1202

<211> 332

<212> PRT

<213> Homo sapiens

<400> 1202

```

Met Pro Leu Pro Trp Ser Leu Ala Leu Pro Leu Leu Leu Ser Trp Val
 1          5          10          15
Ala Gly Gly Phe Gly Asn Ala Ala Ser Ala Arg His His Gly Leu Leu
          20          25          30
Ala Ser Ala Arg Gln Pro Gly Val Cys His Tyr Gly Thr Lys Leu Ala
          35          40          45
Cys Cys Tyr Gly Trp Arg Arg Asn Ser Lys Gly Val Cys Glu Ala Thr
          50          55          60
Cys Glu Pro Gly Cys Lys Phe Gly Glu Cys Val Gly Pro Asn Lys Cys
          65          70          75          80
Arg Cys Phe Pro Gly Tyr Thr Gly Lys Thr Cys Ser Gln Asp Val Asn
          85          90          95
Glu Cys Gly Met Lys Pro Arg Pro Cys Gln His Arg Cys Val Asn Thr
          100          105          110
His Gly Ser Tyr Lys Cys Phe Cys Leu Ser Gly His Met Leu Met Pro
          115          120          125
Asp Ala Thr Cys Val Asn Ser Arg Thr Cys Ala Met Ile Asn Cys Gln
          130          135          140
Tyr Ser Cys Glu Asp Thr Glu Glu Gly Pro Gln Cys Leu Cys Pro Ser
          145          150          155          160
Ser Gly Leu Arg Leu Ala Pro Asn Gly Arg Asp Cys Leu Asp Ile Asp

```

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      165      170      175
Glu Cys Ala Ser Gly Lys Val Ile Cys Pro Tyr Asn Arg Arg Cys Val
      180      185      190
Asn Thr Phe Gly Ser Tyr Tyr Cys Lys Cys His Ile Gly Phe Glu Leu
      195      200      205
Gln Tyr Ile Ser Gly Arg Tyr Asp Cys Ile Asp Ile Asn Glu Cys Thr
      210      215      220
Met Asp Ser His Thr Cys Ser His His Ala Asn Cys Phe Asn Thr Gln
      225      230      235
Gly Ser Phe Lys Cys Lys Cys Lys Gln Gly Tyr Lys Gly Asn Gly Leu
      245      250      255
Arg Cys Ser Ala Ile Pro Glu Asn Ser Val Lys Glu Val Leu Arg Ala
      260      265      270
Pro Gly Thr Ile Lys Asp Arg Ile Lys Lys Leu Leu Ala His Lys Asn
      275      280      285
Ser Met Lys Lys Lys Ala Lys Ile Lys Asn Val Thr Pro Glu Pro Thr
      290      295      300
Arg Thr Pro Thr Pro Lys Val Asn Leu Gln Pro Phe Asn Tyr Glu Glu
      305      310      315      320
Ile Val Ser Arg Gly Gly Asn Ser His Gly Gly *
      325      330 331

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<210> 1203
<211> 825
<212> PRT
<213> Homo sapiens

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      <400> 1203
Met Ala Arg Leu Gly Asn Cys Ser Leu Thr Trp Ala Ala Leu Ile Ile
  1      5      10      15
Leu Leu Leu Pro Gly Ser Leu Glu Glu Cys Gly His Ile Ser Val Ser
      20      25      30
Ala Pro Ile Val His Leu Gly Asp Pro Ile Thr Ala Ser Cys Ile Ile
      35      40      45
Lys Gln Asn Cys Ser His Leu Asp Pro Glu Pro Gln Ile Leu Trp Arg
      50      55      60
Leu Gly Ala Glu Leu Gln Pro Gly Gly Arg Gln Gln Arg Leu Ser Asp
      65      70      75      80
Gly Thr Gln Glu Ser Ile Ile Thr Leu Pro His Leu Asn His Thr Gln
      85      90      95
Ala Phe Leu Ser Cys Cys Leu Asn Trp Gly Asn Ser Leu Gln Ile Leu
      100      105      110
Asp Gln Val Glu Leu Arg Ala Gly Tyr Pro Pro Ala Ile Pro His Asn
      115      120      125
Leu Ser Cys Leu Met Asn Leu Thr Thr Ser Ser Leu Ile Cys Gln Trp
      130      135      140
Glu Pro Gly Pro Glu Thr His Leu Pro Thr Ser Phe Thr Leu Lys Ser
      145      150      155      160
Phe Lys Ser Arg Gly Asn Cys Gln Thr Gln Gly Asp Ser Ile Leu Asp
      165      170      175
Cys Val Pro Lys Asp Gly Gln Ser His Cys Cys Ile Pro Arg Lys His
      180      185      190
Leu Leu Leu Tyr Gln Asn Met Gly Ile Trp Val Gln Ala Glu Asn Ala
      195      200      205
Leu Gly Thr Ser Met Ser Pro Gln Leu Cys Leu Asp Pro Met Asp Val
      210      215      220

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Val	Lys	Leu	Glu	Pro	Pro	Met	Leu	Arg	Thr	Met	Asp	Pro	Ser	Pro	Glu
225					230					235					240
Ala	Ala	Pro	Pro	Gln	Ala	Gly	Cys	Leu	Gln	Leu	Cys	Trp	Glu	Pro	Trp
				245					250					255	
Gln	Pro	Gly	Leu	His	Ile	Asn	Gln	Lys	Cys	Glu	Leu	Arg	His	Lys	Pro
			260					265					270		
Gln	Arg	Gly	Glu	Ala	Ser	Trp	Ala	Leu	Val	Gly	Pro	Leu	Pro	Leu	Glu
			275				280					285			
Ala	Leu	Gln	Tyr	Glu	Leu	Cys	Gly	Leu	Leu	Pro	Ala	Thr	Ala	Tyr	Thr
			290			295					300				
Leu	Gln	Ile	Arg	Cys	Ile	Arg	Trp	Pro	Leu	Pro	Gly	His	Trp	Ser	Asp
305					310					315					320
Trp	Ser	Pro	Ser	Leu	Glu	Leu	Arg	Thr	Thr	Glu	Arg	Ala	Pro	Thr	Val
				325					330					335	
Arg	Leu	Asp	Thr	Trp	Trp	Arg	Gln	Arg	Gln	Leu	Asp	Pro	Arg	Thr	Val
			340				345						350		
Gln	Leu	Phe	Trp	Lys	Pro	Val	Pro	Leu	Glu	Glu	Asp	Ser	Gly	Arg	Ile
			355				360						365		
Gln	Gly	Tyr	Val	Val	Ser	Trp	Arg	Pro	Ser	Gly	Gln	Ala	Gly	Ala	Ile
			370			375					380				
Leu	Pro	Leu	Cys	Asn	Thr	Thr	Glu	Leu	Ser	Cys	Thr	Phe	His	Leu	Pro
385					390					395					400
Ser	Glu	Ala	Gln	Glu	Val	Ala	Leu	Val	Ala	Tyr	Asn	Ser	Ala	Gly	Thr
				405					410					415	
Ser	Arg	Pro	Thr	Pro	Val	Val	Phe	Ser	Glu	Ser	Arg	Gly	Pro	Ala	Leu
			420					425					430		
Thr	Arg	Leu	His	Ala	Met	Ala	Arg	Asp	Pro	His	Ser	Leu	Trp	Val	Gly
			435				440						445		
Trp	Glu	Pro	Pro	Asn	Pro	Trp	Pro	Gln	Gly	Tyr	Val	Ile	Glu	Trp	Gly
			450			455					460				
Leu	Gly	Pro	Pro	Ser	Ala	Ser	Asn	Ser	Asn	Lys	Thr	Trp	Arg	Met	Glu
465					470					475					480
Gln	Asn	Gly	Arg	Ala	Thr	Gly	Phe	Leu	Leu	Lys	Glu	Asn	Ile	Arg	Pro
				485					490					495	
Phe	Gln	Leu	Tyr	Glu	Ile	Ile	Val	Thr	Pro	Leu	Tyr	Gln	Asp	Thr	Met
			500				505						510		
Gly	Pro	Ser	Gln	His	Val	Tyr	Ala	Tyr	Ser	Gln	Glu	Met	Ala	Pro	Ser
			515				520					525			
His	Ala	Pro	Glu	Leu	His	Leu	Lys	His	Ile	Gly	Lys	Thr	Trp	Ala	Gln
530						535					540				
Leu	Glu	Trp	Val	Pro	Glu	Pro	Pro	Glu	Leu	Gly	Lys	Ser	Pro	Leu	Thr
545					550					555					560
His	Tyr	Thr	Ile	Phe	Trp	Thr	Asn	Ala	Gln	Asn	Gln	Ser	Phe	Ser	Ala
				565					570					575	
Ile	Leu	Asn	Ala	Ser	Ser	Arg	Gly	Phe	Val	Leu	His	Gly	Leu	Glu	Pro
			580					585					590		
Ala	Ser	Leu	Tyr	His	Ile	His	Leu	Met	Ala	Ala	Ser	Gln	Ala	Gly	Ala
			595				600					605			
Thr	Asn	Ser	Thr	Val	Leu	Thr	Leu	Met	Thr	Leu	Thr	Pro	Ala	Pro	Thr
			610			615					620				
Gly	Arg	Ile	Pro	Ser	Gly	Gln	Val	Ser	Gln	Thr	Gln	Leu	Thr	Ala	Ala
625					630					635					640
Trp	Ala	Pro	Gly	Cys	Pro	Gln	Ser	Trp	Arg	Arg	Met	Pro	Ser	Ser	Cys
				645					650					655	
Pro	Ala	Leu	Ala	Arg	His	Pro	Ser	Pro	Ser	Ser	Gln	Cys	Trp	Arg	Arg
			660					665					670		
Met	Lys	Arg	Ser	Arg	Cys	Pro	Gly	Ser	Pro	Ile	Thr	Ala	Gln	Arg	Pro
			675				680					685			
Val	Ala	Ser	Pro	Leu	Trp	Ser	Arg	Pro	Met	Cys	Ser	Arg	Gly	Thr	Gln

```

      690              695              700
Glu Gln Phe Pro Pro Ser Pro Asn Pro Ser Leu Ala Pro Ala Ile Arg
705              710              715              720
Ser Phe Met Gly Ser Cys Trp Ala Ala Pro Gln Ala Gln Gly Gln Gly
      725              730              735
Thr Ile Ser Ala Val Thr Pro Leu Ser Pro Ser Trp Arg Ala Ser Pro
      740              745              750
Pro Ala Pro Ser Pro Met Arg Thr Ser Gly Ser Arg Pro Ala Pro Trp
      755              760              765
Gly Pro Leu Val Thr Pro Ser Pro Lys Ser Gln Glu Asp Asp Cys Val
      770              775              780
Phe Gly Pro Leu Leu Asn Phe Pro Pro Ser Cys Arg Gly Ser Gly Ser
785              790              795              800
Met Gly Trp Arg Arg Trp Gly Ala Ser Arg Ala Ser Leu Gly Phe Pro
      805              810              815
Ser Trp Ala Cys Leu Leu Lys Ala *
      820              824

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<210> 1204
<211> 48
<212> PRT
<213> Homo sapiens

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<400> 1204
Met Leu Leu Phe Ser Ser Arg Phe Ile Met Phe Leu Trp Pro Pro Val
 1              5              10              15
Ser Gly Val Cys Leu Ser Phe Ile Arg Asp Arg Ser Phe Leu Pro Met
      20              25              30
Cys His Phe Ile Tyr Val Leu Ile Leu Cys Asn Ser Ile Ala Leu *
      35              40              45              47

```

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<210> 1205
<211> 46
<212> PRT
<213> Homo sapiens

```

```

<400> 1205
Met Gly Ser Phe Ser Phe Ile Leu Val Leu Phe Ile Asp Cys Leu Cys
 1              5              10              15
Met Phe Pro Ser Val Leu Val Gln Leu Leu Cys Thr Tyr Ser Ser Leu
      20              25              30
Met Lys Thr Pro Leu Trp Leu Gln Ala Arg Ser Ser His *
      35              40              45

```

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<210> 1206
<211> 88
<212> PRT
<213> Homo sapiens

```

```

<400> 1206

```

```

Met Gln Trp Cys Asn Leu Thr Ala Thr Ser Ala Phe Gln Ile Glu Ala
 1          5          10          15
Ile Leu Leu Pro Gln Leu Ser Pro Val Ala Gly Ile Thr Gly Thr Cys
          20          25          30
Tyr His Ala Trp Leu Ile Phe Val Phe Leu Val Glu Thr Gly Phe His
          35          40          45
His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Gly Asp Pro Pro
          50          55          60
Thr Leu Ala Ser Gln Ser Ala Gly Ile Thr Ser Val Ser His His Ala
          65          70          75          80
Gln Pro Leu Lys Gly Thr Phe *
          85          87

```

<210> 1207
 <211> 186
 <212> PRT
 <213> Homo sapiens

```

<400> 1207
Met Ile Leu Asn Lys Ala Leu Met Leu Gly Ala Leu Ala Leu Thr Thr
 1          5          10          15
Val Met Ser Pro Cys Gly Gly Glu Asp Ile Val Ala Asp His Val Ala
          20          25          30
Ser Tyr Gly Val Asn Leu Tyr Gln Ser Tyr Gly Pro Ser Gly Gln Tyr
          35          40          45
Ser His Glu Phe Asp Gly Asp Glu Glu Phe Tyr Val Asp Leu Glu Arg
          50          55          60
Lys Glu Thr Val Trp Gln Leu Pro Leu Phe Arg Arg Phe Arg Arg Phe
          65          70          75          80
Asp Pro Gln Phe Ala Leu Thr Asn Ile Ala Val Leu Lys His Asn Leu
          85          90          95
Asn Ile Val Ile Lys Arg Ser Asn Ser Thr Ala Ala Thr Asn Glu Val
          100          105          110
Pro Glu Val Thr Val Phe Ser Lys Ser Pro Val Thr Leu Gly Gln Pro
          115          120          125
Asn Thr Leu Ile Cys Leu Val Asp Asn Ile Phe Pro Pro Val Val Asn
          130          135          140
Ile Thr Trp Leu Ser Asn Gly His Ser Val Thr Glu Gly Val Ser Glu
          145          150          155          160
Thr Arg Pro Ser Ser Pro Lys Ser Asp His Phe Leu Leu Gln Asp Gln
          165          170          175
Val Thr Ser Pro Ser Phe Pro Phe Glu *
          180          185

```

<210> 1208
 <211> 46
 <212> PRT
 <213> Homo sapiens

```

<400> 1208
Met Asn Pro His Leu Gly Val Phe Leu Val Leu Val Ser Phe Phe Leu
 1          5          10          15
Ser Leu Leu Asp Ser Gln Leu His Ser Trp Ile Val Leu His Asn Ser

```

20 25 30
 Pro Ser Ser Arg Met Trp Lys Ser Ile Ile Phe Phe Leu *
 35 40 45

<210> 1209
 <211> 199
 <212> PRT
 <213> Homo sapiens

<400> 1209
 Met Ala Leu Leu Val Pro Leu Ala Leu Leu Val Ile Gln Ala His Leu
 1 5 10 15
 Val Leu Ser Val Gln Leu Glu Arg Val Val Thr Glu Glu Lys Val Ala
 20 25 30
 Leu Leu Ala Leu Leu Val Leu Pro Val Leu Leu Val Pro Glu Val Leu
 35 40 45
 Leu Val Leu Lys Ala His Val Val Thr Lys Val Lys Gln Val Asn Val
 50 55 60
 Glu Leu Leu Ala Ser Lys Asp Ile Glu Asp Ser Leu Val Ile Gln Val
 65 70 75 80
 Pro Gln Val Leu Gln Ala Leu Leu Val Ser Arg Val Gln Ser Ala Val
 85 90 95
 Gln Asp Leu Gln Ala Pro Glu Asp Leu Leu Asp Pro Val Asp Leu Leu
 100 105 110
 Ala Lys Met Glu Pro Val Asp Ile Gln Val Pro Leu Asp His Gln Gly
 115 120 125
 Leu Glu Val Thr Glu Val Lys Glu Asp Leu Arg Ala Pro Gln Ala Thr
 130 135 140
 Gln Gly Asn Gln Ala Leu Leu Asp Leu Leu Val Pro Leu Val Leu Ala
 145 150 155 160
 Val Val Val Leu Glu Pro Leu Pro Leu Leu Gly Leu Glu Val Lys Lys
 165 170 175
 Leu Ala Val Leu Pro Arg Ile Met Glu Met Asn Gln Trp Ile Ser Lys
 180 185 190
 Ser Thr Pro Met Arg Leu *
 195 198

<210> 1210
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 1210
 Met Leu Val Thr Arg Pro Ser Gly Asn Thr Trp Ile Pro Phe Phe Cys
 1 5 10 15
 Trp Leu Leu Phe Cys Val Val Glu Leu Leu Ser Pro Gly Asn Leu Gly
 20 25 30
 Pro Ser Val Leu Glu Val Val Leu Pro Asp Val Phe Lys Leu Asp Leu
 35 40 45
 Leu Ser Ser Leu Leu Asp Val Gly Ser Leu *
 50 55 58

<210> 1211
 <211> 227
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(227)
 <223> Xaa = any amino acid or nothing

<400> 1211
 Met Ala Ser Ile Cys Ser Trp Arg Val Met Leu Ala Trp Ala Ala Cys
 1 5 10 15
 Trp Val Arg Ala His Ala Ala Leu Ser Gly His Pro Arg Ser Thr Phe
 20 25 30
 Ser Leu Trp Leu Ser Gly Ile Ser Leu Pro Xaa Pro Ile Phe Leu Pro
 35 40 45
 Met Ala Val Ser Leu Leu Thr Pro Lys Asp Val Lys Tyr Ala Arg Ser
 50 55 60
 Pro Asn Cys Phe Lys Ala Ala Leu Asn Ile Pro Asp Pro Gly Ala Val
 65 70 75 80
 His Leu Ile Ile Ala Leu Leu Leu Thr Asp Gly Ala Ile Pro Leu Leu
 85 90 95
 Gln Pro Ala Arg Val Lys Lys Ser Asn Ala His Val Phe Leu His Phe
 100 105 110
 Ala Gly Gly Asp Leu Leu Pro Ser Asn Gly Gly His Lys Ile Leu Ile
 115 120 125
 Trp Ser Arg Gly Trp Arg Gln Gly Leu Gly Gly Phe Gly Ile Ile Ile
 130 135 140
 Leu Ala Asp Asn Asp Leu Val Trp Ser Trp Gly Gln Ser Trp Arg His
 145 150 155 160
 Gly Cys Leu Leu Gly Val Gly Ala Leu Ser Ala Leu Leu Leu His His
 165 170 175
 Leu Asn Pro His Pro Tyr Leu Val Leu Gly Cys Pro Gly Pro Ala Gly
 180 185 190
 Lys Glu Ala Pro Pro Pro Ser Pro Val Cys His Pro Pro His Gln Thr
 195 200 205
 Arg Pro Pro Ser Gln Leu Pro His Ser Pro Gln Thr Phe His Ser Ala
 210 215 220
 Pro Glu *
 225 226

<210> 1212
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 1212
 Met Cys Val Ser Val Arg Val Cys Val Cys Val Cys Val Cys Ala Arg
 1 5 10 15
 Val Cys Ala Arg Leu Cys Val Cys Val His Ala Arg Leu Cys Val His
 20 25 30
 Val Arg Val Ser Ala Arg Val Ser Val Tyr Val Cys Thr Arg Val Ser
 35 40 45
 Val Cys Val His Ala Arg Ala Arg His His Arg Ser Ile *

50

55

60 61

<210> 1213

<211> 55

<212> PRT

<213> Homo sapiens

<400> 1213

```

Met Phe Arg Arg Leu Thr Phe Ala Gln Leu Leu Phe Ala Thr Val Leu
 1           5           10           15
Gly Ile Ala Gly Gly Val Tyr Ile Phe Gln Pro Val Phe Glu Gln Tyr
           20           25           30
Ala Lys Asp Gln Lys Glu Leu Lys Glu Lys Met Gln Leu Val Gln Glu
           35           40           45
Ser Glu Glu Lys Lys Ser *
 50           54

```

<210> 1214

<211> 642

<212> PRT

<213> Homo sapiens

<400> 1214

```

Met Thr Met Tyr Leu Trp Leu Lys Leu Leu Ala Phe Gly Phe Ala Phe
 1           5           10           15
Leu Asp Thr Glu Val Phe Val Thr Gly Gln Ser Pro Thr Pro Ser Pro
           20           25           30
Thr Asp Ala Tyr Leu Asn Ala Ser Glu Thr Thr Thr Leu Ser Pro Ser
           35           40           45
Gly Ser Ala Val Ile Ser Thr Thr Thr Ile Ala Thr Thr Pro Ser Lys
           50           55           60
Pro Thr Cys Asp Glu Lys Tyr Ala Asn Ile Thr Val Asp Tyr Leu Tyr
           65           70           75           80
Asn Lys Glu Thr Lys Leu Phe Thr Ala Lys Leu Asn Val Asn Glu Asn
           85           90           95
Val Glu Cys Gly Asn Asn Thr Cys Thr Asn Asn Glu Val His Asn Leu
           100          105          110
Thr Glu Cys Lys Asn Ala Ser Val Ser Ile Ser His Asn Ser Cys Thr
           115          120          125
Ala Pro Asp Lys Thr Leu Ile Leu Asp Val Pro Pro Gly Val Glu Lys
           130          135          140
Phe Gln Leu His Asp Cys Thr Gln Val Glu Lys Ala Asp Thr Thr Ile
           145          150          155          160
Cys Leu Lys Trp Lys Asn Ile Glu Thr Phe Thr Cys Asp Thr Gln Asn
           165          170          175
Ile Thr Tyr Arg Phe Gln Cys Gly Asn Met Ile Phe Asp Asn Lys Glu
           180          185          190
Ile Lys Leu Glu Asn Leu Glu Pro Glu His Glu Tyr Lys Cys Asp Ser
           195          200          205
Glu Ile Leu Tyr Asn Asn His Lys Phe Thr Asn Ala Ser Lys Ile Ile
           210          215          220
Lys Thr Asp Phe Gly Ser Pro Gly Glu Pro Gln Ile Ile Phe Cys Arg
           225          230          235          240

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Ser Glu Ala Ala His Gln Gly Val Ile Thr Trp Asn Pro Pro Gln Arg
 245 250 255
 Ser Phe His Asn Phe Thr Leu Cys Tyr Ile Lys Glu Thr Glu Lys Asp
 260 265 270
 Cys Leu Asn Leu Asp Lys Asn Leu Ile Lys Tyr Asp Leu Gln Asn Leu
 275 280 285
 Lys Pro Tyr Thr Lys Tyr Val Leu Ser Leu His Ala Tyr Ile Ile Ala
 290 295 300
 Lys Val Gln Arg Asn Gly Ser Ala Ala Met Cys His Phe Thr Thr Lys
 305 310 315 320
 Ser Ala Pro Pro Ser Gln Val Trp Asn Met Thr Val Ser Met Thr Ser
 325 330 335
 Asp Asn Ser Met His Val Lys Cys Arg Pro Pro Arg Asp Arg Asn Gly
 340 345 350
 Pro His Glu Arg Tyr His Leu Glu Val Glu Ala Gly Asn Thr Leu Val
 355 360 365
 Arg Asn Glu Ser His Lys Asn Cys Asp Phe Arg Val Lys Asp Leu Gln
 370 375 380
 Tyr Ser Thr Asp Tyr Thr Phe Lys Ala Tyr Phe His Asn Gly Asp Tyr
 385 390 395 400
 Pro Gly Glu Pro Phe Ile Leu His His Ser Thr Ser Tyr Asn Ser Lys
 405 410 415
 Ala Leu Ile Ala Phe Leu Ala Phe Leu Ile Ile Val Thr Ser Ile Ala
 420 425 430
 Leu Leu Val Val Leu Tyr Lys Ile Tyr Asp Leu His Lys Lys Arg Ser
 435 440 445
 Cys Asn Leu Asp Glu Gln Gln Glu Leu Val Glu Arg Asp Asp Glu Lys
 450 455 460
 Gln Leu Met Asn Val Glu Pro Ile His Ala Asp Ile Leu Leu Glu Thr
 465 470 475 480
 Tyr Lys Arg Lys Ile Ala Asp Glu Gly Arg Leu Phe Leu Ala Glu Phe
 485 490 495
 Gln Ser Ile Pro Arg Val Phe Ser Lys Phe Pro Ile Lys Glu Ala Arg
 500 505 510
 Lys Pro Phe Asn Gln Asn Lys Asn Arg Tyr Val Asp Ile Leu Pro Tyr
 515 520 525
 Asp Tyr Asn Arg Val Glu Leu Ser Glu Ile Asn Gly Asp Ala Gly Ser
 530 535 540
 Asn Tyr Ile Asn Ala Ser Tyr Ile Asp Gly Phe Lys Glu Pro Arg Lys
 545 550 555 560
 Tyr Ile Ala Ala Gln Gly Pro Arg Asp Glu Thr Val Asp Asp Phe Trp
 565 570 575
 Arg Met Ile Trp Glu Gln Lys Ala Thr Val Ile Val Met Val Thr Arg
 580 585 590
 Cys Glu Glu Gly Asn Arg Asn Lys Cys Ala Glu Tyr Trp Pro Ser Met
 595 600 605
 Glu Glu Gly Thr Arg Ala Phe Gly Glu Cys Cys Cys Lys Asp Leu Thr
 610 615 620
 Lys His Lys Arg Cys Pro Arg Leu His His Ser Glu Ile Glu His Cys
 625 630 635 640
 Lys *
 641

<210> 1215

<211> 85

<212> PRT

<213> Homo sapiens

<400> 1215

```

Met Leu Phe Leu Thr Leu Ile Ser Phe Cys Gly Phe Leu Leu Leu His
 1           5           10           15
Arg Leu Thr Ser Met Val Arg Leu Phe Leu Gly Ala Ala Ile Gln Lys
           20           25           30
Ile Leu Ser Lys Arg Leu Glu Phe Ser Leu Leu Pro Leu Val Ser Phe
           35           40           45
Ala Gly Ser Val Asn Met Ala Gly Pro Cys Thr Ala Asn Ala Gly Pro
           50           55           60
His Gly Gly Leu Gly Lys Pro Gly Arg Leu Cys Gly Ser Phe Arg Ser
           65           70           75           80
Ser Arg Ser Gln *
           84

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<210> 1216

<211> 403

<212> PRT

<213> Homo sapiens

<400> 1216

```

Met Ala Ser Val Val Leu Pro Ser Gly Ser Gln Cys Ala Ala Ala Ala
 1           5           10           15
Ala Ala Ala Ala Pro Pro Gly Leu Arg Leu Arg Leu Leu Leu Leu
           20           25           30
Phe Ser Ala Ala Ala Leu Ile Pro Thr Gly Asp Gly Gln Asn Leu Phe
           35           40           45
Thr Lys Asp Val Thr Val Ile Glu Gly Glu Val Ala Thr Ile Ser Cys
           50           55           60
Gln Val Asn Lys Ser Asp Asp Ser Val Ile Gln Leu Leu Asn Pro Asn
           65           70           75           80
Arg Gln Thr Ile Tyr Phe Arg Asp Phe Arg Pro Leu Lys Asp Ser Arg
           85           90           95
Phe Gln Leu Leu Asn Phe Ser Ser Ser Glu Leu Lys Val Ser Leu Thr
           100           105           110
Asn Val Ser Ile Ser Asp Glu Gly Arg Tyr Phe Cys Gln Leu Tyr Thr
           115           120           125
Asp Pro Pro Gln Glu Ser Tyr Thr Thr Ile Thr Val Leu Val Pro Pro
           130           135           140
Arg Asn Leu Met Ile Asp Ile Gln Lys Asp Thr Ala Val Glu Gly Glu
           145           150           155           160
Glu Ile Glu Val Asn Cys Thr Ala Met Ala Ser Lys Pro Ala Thr Thr
           165           170           175
Ile Arg Trp Phe Lys Gly Asn Thr Glu Leu Lys Gly Lys Ser Glu Val
           180           185           190
Glu Glu Trp Ser Asp Met Tyr Thr Val Thr Ser Gln Leu Met Leu Lys
           195           200           205
Val His Lys Glu Asp Asp Gly Val Pro Val Ile Cys Gln Val Glu His
           210           215           220
Pro Ala Val Thr Gly Asn Leu Gln Thr Gln Arg Tyr Leu Glu Val Gln
           225           230           235           240
Tyr Lys Pro Gln Val His Ile Gln Met Thr Tyr Pro Leu Gln Gly Leu
           245           250           255
Thr Arg Glu Gly Asp Ala Leu Glu Leu Thr Cys Glu Ala Ile Gly Lys
           260           265           270

```

```

Pro Gln Pro Val Met Val Thr Trp Val Arg Val Asp Asp Glu Met Pro
      275      280      285
Gln His Ala Val Leu Ser Gly Pro Asn Leu Phe Ile Asn Asn Leu Asn
      290      295      300
Lys Thr Asp Asn Gly Thr Tyr Arg Cys Glu Ala Ser Asn Ile Val Gly
      305      310      315      320
Lys Ala His Ser Asp Tyr Met Leu Tyr Val Tyr Asp Pro Pro Thr Thr
      325      330      335
Ile Pro Pro Pro Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr
      340      345      350
Thr Ile Leu Thr Ile Ile Thr Asp Ser Arg Ala Gly Glu Glu Gly Ser
      355      360      365
Ile Arg Ala Val Asp His Ala Val Ile Gly Gly Val Val Ala Val Val
      370      375      380
Val Phe Ala Met Leu Cys Leu Leu Ile Ile Leu Gly Arg Tyr Phe Ala
      385      390      395      400
Gln Thr *
      402

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<210> 1217
<211> 49
<212> PRT
<213> Homo sapiens

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```

<400> 1217
Met Arg Ala Trp Ala Trp Pro Phe Cys Thr Ser Val Thr Ser Leu Ser
  1      5      10      15
Ala Met Ala Ser Pro Trp Arg Arg Trp Pro Arg Arg Pro Ala Ser Arg
      20      25      30
Thr Ala Ser Arg Ala Pro Ser Ala Gly Ile Ser Gly Ser Thr Ala Pro
      35      40      45      48
*
```

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<210> 1218
<211> 304
<212> PRT
<213> Homo sapiens

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```

<400> 1218
Met Ala Arg Arg Ser Arg His Arg Leu Leu Leu Leu Leu Arg Tyr
  1      5      10      15
Leu Val Val Ala Leu Gly Tyr His Lys Ala Tyr Gly Phe Ser Ala Pro
      20      25      30
Lys Asp Gln Gln Val Val Thr Ala Val Glu Tyr Gln Glu Ala Ile Leu
      35      40      45
Ala Cys Lys Thr Pro Lys Lys Thr Val Ser Ser Arg Leu Glu Trp Lys
      50      55      60
Lys Leu Gly Arg Ser Val Ser Phe Val Tyr Tyr Gln Gln Thr Leu Gln
      65      70      75      80
Gly Asp Phe Lys Asn Arg Ala Glu Met Ile Asp Phe Asn Ile Arg Ile
      85      90      95
Lys Asn Val Thr Arg Ser Asp Ala Gly Lys Tyr Arg Cys Glu Val Ser

```

```

      100      105      110
Ala Pro Ser Glu Gln Gly Gln Asn Leu Glu Glu Asp Thr Val Thr Leu
      115      120      125
Glu Val Leu Gly Asp Val His Val Leu Ala Pro Ala Val Pro Ser Cys
      130      135      140
Glu Val Pro Ser Ser Ala Leu Ser Gly Thr Val Val Glu Leu Arg Cys
145      150      155      160
Gln Asp Lys Glu Gly Asn Pro Ala Pro Glu Tyr Thr Trp Phe Lys Asp
      165      170      175
Gly Ile Arg Leu Leu Glu Asn Pro Arg Leu Gly Ser Gln Ser Thr Asn
      180      185      190
Ser Ser Tyr Thr Met Asn Thr Lys Thr Gly Thr Leu Gln Phe Asn Thr
      195      200      205
Val Ser Lys Leu Asp Thr Gly Glu Tyr Ser Cys Glu Ala Arg Asn Ser
      210      215      220
Val Gly Tyr Arg Arg Cys Pro Gly Lys Arg Met Gln Val Asp Asp Leu
225      230      235      240
Asn Ile Ser Gly Ile Ile Ala Ala Val Val Val Val Ala Leu Val Ile
      245      250      255
Ser Val Cys Gly Leu Gly Val Cys Tyr Ala Gln Arg Lys Gly Tyr Phe
      260      265      270
Ser Lys Glu Thr Ser Phe Gln Lys Ser Asn Ser Ser Ser Lys Ala Thr
      275      280      285
Thr Met Ser Glu Asn Asp Phe Lys His Thr Lys Ser Phe Ile Ile *
      290      295      300      303

```

<210> 1219

<211> 1126

<212> PRT

<213> Homo sapiens

```

      <400> 1219
Met Trp Phe Leu Phe Leu Cys Pro Asn Leu Trp Ala Met Pro Val Gln
  1      5      10      15
Ile Ile Met Gly Val Ile Leu Leu Tyr Asn Leu Leu Gly Ser Ser Ala
      20      25      30
Leu Val Gly Ala Ala Val Ile Val Leu Leu Ala Pro Ile Gln Tyr Phe
      35      40      45
Ile Ala Thr Lys Leu Ala Glu Ala Gln Lys Ser Thr Leu Asp Tyr Ser
      50      55      60
Thr Glu Arg Leu Lys Lys Thr Asn Glu Ile Leu Lys Gly Ile Lys Leu
      65      70      75      80
Leu Lys Leu Tyr Ala Trp Glu His Ile Phe Cys Lys Ser Val Glu Glu
      85      90      95
Thr Arg Met Lys Glu Leu Ser Ser Leu Lys Thr Phe Ala Leu Tyr Thr
      100      105      110
Ser Leu Ser Ile Phe Met Asn Ala Ala Ile Pro Ile Ala Val Leu
      115      120      125
Ala Thr Phe Val Thr His Ala Tyr Ala Ser Gly Asn Asn Leu Lys Pro
      130      135      140
Ala Glu Ala Phe Ala Ser Leu Ser Leu Phe His Ile Leu Val Thr Pro
145      150      155      160
Leu Phe Leu Leu Ser Thr Val Val Arg Phe Ala Val Lys Ala Ile Ile
      165      170      175
Ser Val Gln Lys Leu Asn Glu Phe Leu Leu Ser Asp Glu Ile Gly Asp
      180      185      190

```

Asp Ser Trp Arg Thr Gly Glu Ser Ser Leu Pro Phe Glu Ser Cys Lys
 195 200 205
 Lys His Thr Gly Val Gln Pro Lys Thr Ile Asn Arg Lys Gln Pro Gly
 210 215 220
 Arg Tyr His Leu Asp Ser Tyr Glu Gln Ser Thr Arg Arg Leu Arg Pro
 225 230 235 240
 Ala Glu Thr Glu Asp Ile Ala Ile Lys Val Thr Asn Gly Tyr Phe Ser
 245 250 255
 Trp Gly Ser Gly Leu Ala Thr Leu Ser Asn Ile Asp Ile Arg Ile Pro
 260 265 270
 Thr Gly Gln Leu Thr Met Ile Val Gly Gln Val Gly Cys Gly Lys Ser
 275 280 285
 Ser Leu Leu Leu Ala Ile Leu Gly Glu Met Gln Thr Leu Glu Gly Lys
 290 295 300
 Val His Trp Ser Asn Val Asn Glu Ser Glu Pro Ser Phe Glu Ala Thr
 305 310 315 320
 Arg Ser Arg Asn Arg Tyr Ser Val Ala Tyr Ala Ala Gln Lys Pro Trp
 325 330 335
 Leu Leu Asn Ala Thr Val Glu Glu Asn Ile Thr Phe Gly Ser Pro Phe
 340 345 350
 Asn Lys Gln Arg Tyr Lys Ala Val Thr Asp Ala Cys Ser Leu Gln Pro
 355 360 365
 Asp Ile Asp Leu Leu Pro Phe Gly Asp Gln Thr Glu Ile Gly Glu Arg
 370 375 380
 Gly Ile Asn Leu Ser Gly Gly Gln Arg Gln Arg Ile Cys Val Ala Arg
 385 390 395 400
 Ala Leu Tyr Gln Asn Thr Asn Ile Val Phe Leu Asp Asp Pro Phe Ser
 405 410 415
 Ala Leu Asp Ile His Leu Ser Asp His Leu Met Gln Glu Gly Ile Leu
 420 425 430
 Lys Phe Leu Gln Asp Asp Lys Arg Thr Leu Val Leu Val Thr His Lys
 435 440 445
 Leu Gln Tyr Leu Thr His Ala Asp Trp Ile Ile Ala Met Lys Asp Gly
 450 455 460
 Ser Val Leu Arg Glu Gly Thr Leu Lys Asp Ile Gln Thr Lys Asp Val
 465 470 475 480
 Glu Leu Tyr Glu His Trp Lys Thr Leu Met Asn Arg Gln Asp Gln Glu
 485 490 495
 Leu Glu Lys Asp Met Glu Ala Asp Gln Thr Thr Leu Glu Arg Lys Thr
 500 505 510
 Leu Arg Arg Ala Met Tyr Ser Arg Glu Ala Lys Ala Gln Met Glu Asp
 515 520 525
 Glu Asp Glu Glu Glu Glu Glu Glu Asp Glu Asp Asp Asn Met Ser
 530 535 540
 Thr Val Met Arg Leu Arg Thr Lys Met Pro Trp Lys Thr Cys Trp Arg
 545 550 555 560
 Tyr Leu Thr Ser Gly Gly Phe Phe Leu Leu Ile Leu Met Ile Phe Ser
 565 570 575
 Lys Leu Leu Lys His Ser Val Ile Val Ala Ile Asp Tyr Trp Leu Ala
 580 585 590
 Thr Trp Thr Ser Glu Tyr Ser Ile Asn Asn Thr Gly Lys Ala Asp Gln
 595 600 605
 Thr Tyr Tyr Val Ala Gly Phe Ser Ile Leu Cys Gly Ala Gly Ile Phe
 610 615 620
 Leu Cys Leu Val Thr Ser Leu Thr Val Glu Trp Met Gly Leu Thr Ala
 625 630 635 640
 Ala Lys Asn Leu His Asn Leu Leu Asn Lys Ile Ile Leu Gly Pro
 645 650 655
 Ile Arg Phe Phe Asp Thr Thr Pro Leu Gly Leu Ile Leu Asn Arg Phe

	660		665		670										
Ser	Ala	Asp	Thr	Asn	Ile	Ile	Asp	Gln	His	Ile	Pro	Pro	Thr	Leu	Glu
	675						680						685		
Ser	Leu	Thr	Arg	Ser	Thr	Leu	Leu	Cys	Leu	Ser	Ala	Ile	Gly	Met	Ile
	690						695						700		
Ser	Tyr	Ala	Thr	Pro	Val	Phe	Leu	Val	Ala	Leu	Leu	Pro	Leu	Gly	Val
	705						710						715		720
Ala	Phe	Tyr	Phe	Ile	Gln	Lys	Tyr	Phe	Arg	Val	Ala	Ser	Lys	Asp	Leu
							725								735
Gln	Glu	Leu	Asp	Asp	Ser	Thr	Gln	Leu	Pro	Leu	Leu	Cys	His	Phe	Ser
															740
Glu	Thr	Ala	Glu	Gly	Leu	Thr	Thr	Ile	Arg	Ala	Phe	Arg	His	Glu	Thr
															750
Arg	Phe	Lys	Gln	Arg	Met	Leu	Glu	Leu	Thr	Asp	Thr	Asn	Asn	Ile	Ala
															760
Tyr	Leu	Phe	Leu	Ser	Ala	Ala	Asn	Arg	Trp	Leu	Glu	Val	Arg	Thr	Asp
															770
Tyr	Leu	Gly	Ala	Cys	Ile	Val	Leu	Thr	Ala	Ser	Ile	Ala	Ser	Ile	Ser
															780
Gly	Ser	Ser	Asn	Ser	Gly	Leu	Val	Gly	Leu	Gly	Leu	Leu	Tyr	Ala	Leu
															800
Thr	Ile	Thr	Asn	Tyr	Leu	Asn	Trp	Val	Val	Arg	Asn	Leu	Ala	Asp	Leu
															810
Glu	Val	Gln	Met	Gly	Ala	Val	Lys	Lys	Val	Asn	Ser	Phe	Leu	Thr	Met
															820
Glu	Ser	Glu	Asn	Tyr	Glu	Gly	Thr	Met	Asp	Pro	Ser	Gln	Val	Pro	Glu
															830
His	Trp	Pro	Gln	Glu	Gly	Glu	Ile	Lys	Ile	His	Asp	Leu	Cys	Val	Arg
															840
Tyr	Glu	Asn	Asn	Leu	Lys	Pro	Val	Leu	Lys	His	Val	Lys	Ala	Tyr	Ile
															850
Lys	Pro	Gly	Gln	Lys	Val	Gly	Ile	Cys	Gly	Arg	Thr	Gly	Ser	Gly	Lys
															860
Ser	Ser	Leu	Ser	Leu	Ala	Phe	Phe	Arg	Met	Val	Asp	Ile	Phe	Asp	Gly
															870
Lys	Ile	Val	Ile	Asp	Gly	Ile	Asp	Ile	Ser	Lys	Leu	Pro	Leu	His	Thr
															880
Leu	Arg	Ser	Arg	Leu	Ser	Ile	Ile	Leu	Gln	Asp	Pro	Ile	Leu	Phe	Ser
															890
Gly	Ser	Ile	Arg	Phe	Asn	Leu	Asp	Pro	Glu	Cys	Lys	Cys	Thr	Asp	Asp
															900
Arg	Leu	Trp	Glu	Ala	Leu	Glu	Ile	Ala	Gln	Leu	Lys	Asn	Met	Val	Lys
															910
Ser	Leu	Pro	Gly	Gly	Leu	Asp	Ala	Val	Val	Thr	Glu	Gly	Gly	Glu	Asn
															920
Phe	Ser	Val	Gly	Gln	Arg	Gln	Leu	Phe	Cys	Leu	Ala	Arg	Ala	Phe	Val
															930
Arg	Lys	Ser	Ser	Ile	Leu	Ile	Met	Asp	Glu	Ala	Thr	Ala	Ser	Ile	Asp
															940
Met	Ala	Thr	Glu	Asn	Ile	Leu	Gln	Lys	Val	Val	Met	Thr	Ala	Phe	Ala
															950
Asp	Arg	Thr	Val	Val	Thr	Met	Ala	His	Arg	Val	Ser	Ser	Ile	Met	Asp
															960
Ala	Gly	Leu	Val	Leu	Val	Phe	Ser	Glu	Gly	Ile	Leu	Val	Glu	Cys	Asp
															970
Thr	Val	Pro	Asn	Leu	Phe	Ala	His	Lys	Asn	Gly	Pro	Phe	Ser	Thr	Leu
															980
Val	Met	Thr	Asn	Lys	*										990
															1000

<210> 1220
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1220
 Met Ser Ser Val Ser Leu Ile Glu Phe Pro Leu Tyr Met Ile Cys Pro
 1 5 10 15
 Phe Ala Leu Ala Ala Phe Lys Thr Phe Ser Leu Ala Leu Ile Leu Asp
 20 25 30
 Ile Leu Leu Thr Ile Phe Leu Asp Asp Ile His Phe Val *
 35 40 45

<210> 1221
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1221
 Met Leu Ile Leu Leu Leu Glu Phe Gly Ile Thr Ile Ile Lys Val
 1 5 10 15
 Thr Cys Arg Leu Arg Ile Val Leu Cys Tyr Arg Lys Tyr Lys Thr Lys
 20 25 30
 Arg Asn Lys Lys Leu Lys Leu Gly Asn Asn Ser Lys Phe Gln Arg Met
 35 40 45
 Cys Leu Arg Thr Ser Phe His *
 50 55

<210> 1222
 <211> 253
 <212> PRT
 <213> Homo sapiens

<400> 1222
 Met Gly Cys Ala Ile Ile Ala Gly Phe Leu His Tyr Leu Phe Leu Ala
 1 5 10 15
 Cys Phe Phe Trp Met Leu Val Glu Ala Val Ile Leu Phe Leu Met Val
 20 25 30
 Arg Asn Leu Lys Val Val Asn Tyr Phe Ser Ser Arg Asn Ile Lys Met
 35 40 45
 Leu His Ile Cys Ala Phe Gly Tyr Gly Leu Pro Met Leu Val Val Val
 50 55 60
 Ile Ser Ala Ser Val Gln Pro Gln Gly Tyr Gly Met His Asn Arg Cys
 65 70 75 80
 Trp Leu Asn Thr Glu Thr Gly Phe Ile Trp Ser Phe Leu Gly Pro Val
 85 90 95
 Cys Thr Val Ile Val Ile Asn Ser Leu Leu Leu Thr Trp Thr Leu Trp
 100 105 110
 Ile Leu Arg Gln Arg Leu Ser Ser Val Asn Ala Glu Val Ser Thr Leu

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      115              120              125
Lys Asp Thr Arg Leu Leu Thr Phe Lys Ala Phe Ala Gln Leu Phe Ile
  130              135              140
Leu Gly Cys Ser Trp Val Leu Gly Ile Phe Gln Ile Gly Pro Val Ala
  145              150              155              160
Gly Val Met Ala Tyr Leu Phe His His His Gln Gln Pro Ala Gly Gly
      165              170              175
Leu His Leu Pro His Pro Leu Ser Ala Gln Arg Pro Gly Thr Arg Arg
      180              185              190
Ile Gln Glu Val Asp His Trp Glu Asp Glu Ala Gln Leu Pro Val Pro
      195              200              205
Asp Leu Lys Asp Leu Ala Val Leu His Ala Ile Arg Phe Gln Asp Gly
      210              215              220
Leu Lys Ser Phe Leu Ala Phe Lys Tyr Ala Met Glu Pro Thr Val Gly
      225              230              235              240
Gly Thr Ser Ser Phe Pro Cys Arg Glu Pro Tyr Pro *
      245              250              252

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<210> 1223
 <211> 858
 <212> PRT
 <213> Homo sapiens

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      <400> 1223
Met Lys Met Leu Thr Arg Leu Gln Val Leu Thr Leu Ala Leu Phe Ser
  1              5              10              15
Lys Gly Phe Leu Leu Ser Leu Gly Asp His Asn Phe Leu Arg Arg Glu
      20              25              30
Ile Lys Ile Glu Gly Asp Leu Val Leu Gly Gly Leu Phe Pro Ile Asn
      35              40              45
Glu Lys Gly Thr Gly Thr Glu Glu Cys Gly Arg Ile Asn Glu Asp Arg
      50              55              60
Gly Ile Gln Arg Leu Glu Ala Met Leu Phe Ala Ile Asp Glu Ile Asn
      65              70              75              80
Lys Asp Asp Tyr Leu Leu Pro Gly Val Lys Leu Gly Val His Ile Leu
      85              90              95
Asp Thr Cys Ser Arg Asp Thr Tyr Ala Leu Glu Gln Ser Leu Glu Phe
      100              105              110
Val Arg Ala Ser Leu Thr Lys Val Asp Glu Ala Glu Tyr Met Cys Pro
      115              120              125
Asp Gly Ser Tyr Ala Ile Gln Glu Asn Ile Pro Leu Leu Ile Ala Gly
      130              135              140
Val Ile Gly Gly Ser Tyr Ser Arg Val Ser Ile Gln Gly Ala Asn Leu
      145              150              155              160
Leu Arg Leu Phe Gln Ile Pro Gln Ile Arg Tyr Ala Ser Thr Ser Ala
      165              170              175
Lys Leu Ser Asp Lys Ser Arg Tyr Asp Tyr Phe Ala Arg Thr Val Pro
      180              185              190
Pro Asp Phe Tyr Gln Ala Lys Ala Met Ala Glu Ile Leu Arg Phe Phe
      195              200              205
Asn Trp Thr Tyr Val Ser Thr Val Ala Ser Glu Gly Asp Tyr Gly Glu
      210              215              220
Thr Gly Ile Glu Ala Phe Glu Gln Glu Ala Arg Leu Arg Asn Ile Cys
      225              230              235              240
Ile Ala Thr Ala Glu Lys Val Gly Arg Ser Asn Ile Arg Lys Ser Tyr
      245              250              255

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Asp Ser Val Ile Arg Glu Leu Leu Gln Lys Pro Asn Ala Arg Val Val
 260 265 270
 Val Leu Phe Met Arg Ser Asp Asp Ser Arg Glu Leu Ile Ala Ala Ala
 275 280 285
 Ser Arg Ala Asn Ala Ser Phe Thr Trp Val Ala Ser Asp Gly Trp Gly
 290 295 300
 Ala Gln Glu Ser Ile Ile Lys Gly Ser Glu His Val Ala Tyr Gly Ala
 305 310 315 320
 Ile Thr Leu Glu Leu Ala Ser Gln Pro Val Arg Gln Phe Asp Arg Tyr
 325 330 335
 Phe Gln Ser Leu Asn Pro Tyr Asn Asn His Arg Asn Pro Trp Phe Arg
 340 345 350
 Asp Phe Trp Glu Gln Lys Phe Gln Cys Ser Leu Gln Asn Lys Arg Asn
 355 360 365
 His Arg Arg Val Cys Asp Lys His Leu Ala Ile Asp Ser Ser Asn Tyr
 370 375 380
 Glu Gln Glu Ser Lys Ile Met Phe Val Val Asn Ala Val Tyr Ala Met
 385 390 395 400
 Ala His Ala Leu His Lys Met Gln Arg Thr Leu Cys Pro Asn Thr Thr
 405 410 415
 Lys Leu Cys Asp Ala Met Lys Ile Leu Asp Gly Lys Lys Leu Tyr Lys
 420 425 430
 Asp Tyr Leu Leu Lys Ile Asn Phe Thr Ala Pro Phe Asn Pro Asn Lys
 435 440 445
 Asp Ala Asp Ser Ile Val Lys Phe Asp Thr Phe Gly Asp Gly Met Gly
 450 455 460
 Arg Tyr Asn Val Phe Asn Phe Gln Asn Val Gly Gly Lys Tyr Ser Tyr
 465 470 475 480
 Leu Lys Val Gly His Trp Ala Glu Thr Leu Ser Leu Asp Val Asn Ser
 485 490 495
 Ile His Trp Ser Arg Asn Ser Val Pro Thr Ser Gln Cys Ser Asp Pro
 500 505 510
 Cys Ala Pro Asn Glu Met Lys Asn Met Gln Pro Gly Asp Val Cys Cys
 515 520 525
 Trp Ile Cys Ile Pro Cys Glu Pro Tyr Glu Tyr Leu Ala Asp Glu Phe
 530 535 540
 Thr Cys Met Asp Cys Gly Ser Gly Gln Trp Pro Thr Ala Asp Leu Thr
 545 550 555 560
 Gly Cys Tyr Asp Leu Pro Glu Asp Tyr Ile Arg Trp Glu Asp Ala Trp
 565 570 575
 Ala Ile Gly Pro Val Thr Ile Ala Cys Leu Gly Phe Met Cys Thr Cys
 580 585 590
 Met Val Val Thr Val Phe Ile Lys His Asn Asn Thr Pro Leu Val Lys
 595 600 605
 Ala Ser Gly Arg Glu Leu Cys Tyr Ile Leu Leu Phe Gly Val Gly Leu
 610 615 620
 Ser Tyr Cys Met Thr Phe Phe Phe Ile Ala Lys Pro Ser Pro Val Ile
 625 630 635 640
 Cys Ala Leu Arg Arg Leu Gly Leu Gly Ser Ser Phe Ala Ile Cys Tyr
 645 650 655
 Ser Ala Leu Leu Thr Lys Thr Asn Cys Ile Ala Arg Ile Phe Asp Gly
 660 665 670
 Val Lys Asn Gly Ala Gln Arg Pro Lys Phe Ile Ser Pro Ser Ser Gln
 675 680 685
 Val Phe Ile Cys Leu Gly Leu Ile Leu Val Gln Ile Val Met Val Ser
 690 695 700
 Val Trp Leu Ile Leu Glu Ala Pro Gly Thr Arg Arg Tyr Thr Leu Ala
 705 710 715 720
 Glu Lys Arg Glu Thr Val Ile Leu Lys Cys Asn Val Lys Asp Ser Ser

```

              725              730              735
Met Leu Ile Ser Leu Thr Tyr Asp Val Ile Leu Val Ile Leu Cys Thr
              740              745              750
Val Tyr Ala Phe Lys Thr Arg Lys Cys Pro Glu Asn Phe Asn Glu Ala
              755              760              765
Lys Phe Ile Gly Phe Thr Met Tyr Thr Thr Cys Ile Ile Trp Leu Ala
              770              775              780
Phe Leu Pro Ile Phe Tyr Val Thr Ser Ser Asp Tyr Arg Val Gln Thr
785              790              795              800
Thr Thr Met Cys Ile Ser Val Ser Leu Ser Gly Phe Val Val Leu Gly
              805              810              815
Cys Leu Phe Ala Pro Lys Val His Ile Ile Leu Phe Gln Pro Gln Lys
              820              825              830
Asn Val Val Thr His Arg Leu His Leu Asn Arg Phe Ser Val Ser Gly
              835              840              845
Thr Gly Thr His Ile Leu Ser Val Leu *
850              855              857

```

<210> 1224
 <211> 69
 <212> PRT
 <213> Homo sapiens

```

<400> 1224
Met Ser His Met Val Pro Leu Ala Leu Leu Leu Pro Leu Phe Pro Thr
 1              5              10              15
Ser Arg Arg Ala Ala Leu Pro Phe Leu Pro Leu Phe Phe Gly Leu Met
              20              25              30
Phe Pro Ala Thr Thr Asp Leu Pro Pro His Pro Ser Ala Asp Leu
              35              40              45
Ala Val His Cys Arg His Gly Gly Leu Ile Ser Asp Arg Lys Leu Arg
              50              55              60
Leu Ser Glu Arg *
65              68

```

<210> 1225
 <211> 55
 <212> PRT
 <213> Homo sapiens

```

<400> 1225
Met Cys Tyr His Thr Trp Leu Ile Phe Ile Phe Leu Val Glu Met Gly
 1              5              10              15
Phe Tyr His Val Gly Gln Ala Gly Phe Lys Leu Leu Ala Ser Ser Gly
              20              25              30
Pro Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His
              35              40              45
His Ala Arg Pro Thr Phe *
50              54

```

<210> 1226

<211> 51
 <212> PRT
 <213> Homo sapiens

<400> 1226
 Met Ile Leu Ser Leu Leu Lys Phe Phe Pro Leu Leu Ser Ser Asp Thr
 1 5 10 15
 Pro Asn Ser Ser Val Pro Leu Leu Thr Thr Pro Arg Asp Pro Pro Tyr
 20 25 30
 His Leu Ser Pro Cys Ser Ser Ser Tyr Phe Val Lys Glu Gly Phe Ser
 35 40 45
 Val Val *
 50

<210> 1227
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1227
 Met Ile Leu Phe Cys Val Met Val Phe Ile Leu Phe Ile Thr Phe His
 1 5 10 15
 Leu Gln Leu Pro Thr Val Gly Asp Val Thr Tyr Cys Phe Cys Ser Asn
 20 25 30
 Lys Leu Arg Lys Thr Arg Glu Leu Lys Lys Ile Ser Ser Asn *
 35 40 45 46

<210> 1228
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 1228
 Met Phe Ser Thr Ala Phe Trp Pro Pro Phe Leu Asn Pro Ser Leu Met
 1 5 10 15
 Phe Phe Thr Leu Leu Cys Ser Asp Phe Met Pro Cys Glu Ala Val Cys
 20 25 30
 Ser Ser Ile Ile Tyr Ser Phe Ile Pro Val Thr Lys Thr Gln Gly Ala
 35 40 45
 Ala Pro His Thr Arg Gly Pro Gln Pro His Thr *
 50 55 59

<210> 1229
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1229
 Met Cys Glu Ser Thr Glu Leu Asn Met Thr Phe His Leu Phe Ile Val

```

      1              5              10              15
Ala Leu Ala Gly Ala Gly Ala Ala Val Ile Ala Met Val His Tyr Leu
      20              25              30
Met Val Leu Ser Ala Asn Trp Ala Tyr Val Lys Asp Ala Cys Arg Met
      35              40              45
Ala Glu Val *
      50  51

```

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<210> 1230
<211> 362
<212> PRT
<213> Homo sapiens

```

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      <400> 1230
Met Pro Val Ile Trp Ser Ala Leu Ser Ala Val Leu Leu Leu Ala Ser
      1              5              10              15
Ser Tyr Phe Val Gly Ala Leu Ile Val His Ala Asp Cys Phe Leu Met
      20              25              30
Arg Asn His Thr Ile Thr Glu Gln Pro Met Cys Phe Gln Arg Thr Thr
      35              40              45
Pro Leu Ile Leu Gln Glu Val Ala Ser Phe Leu Lys Arg Asn Lys His
      50              55              60
Gly Pro Phe Leu Leu Phe Val Ser Phe Leu His Val His Ile Pro Leu
      65              70              75              80
Ile Thr Met Glu Asn Phe Leu Gly Lys Ser Leu His Gly Leu Tyr Gly
      85              90              95
Asp Asn Val Lys Glu Met Asp Trp Met Val Gly Arg Ile Leu Asp Thr
      100             105             110
Leu Asp Val Glu Gly Leu Ser Asn Ser Thr Leu Ile Tyr Phe Thr Ser
      115             120             125
Asp His Gly Gly Ser Leu Glu Asn Gln Leu Gly Asn Thr Gln Tyr Gly
      130             135             140
Gly Trp Asn Gly Ile Tyr Lys Gly Gly Lys Gly Met Gly Gly Trp Glu
      145             150             155             160
Gly Gly Ile Arg Val Pro Gly Ile Phe Arg Trp Pro Gly Val Leu Pro
      165             170             175
Ala Gly Arg Val Ile Gly Glu Pro Thr Ser Leu Met Asp Val Phe Pro
      180             185             190
Thr Val Val Arg Leu Ala Gly Ser Glu Val Pro Gln Asp Arg Val Ile
      195             200             205
Asp Gly Gln Asp Leu Leu Pro Leu Leu Leu Gly Thr Ala Gln His Ser
      210             215             220
Asp His Glu Phe Leu Met His Tyr Cys Glu Arg Phe Leu His Ala Ala
      225             230             235             240
Arg Trp His Gln Arg Asp Arg Gly Thr Met Trp Lys Val His Phe Val
      245             250             255
Thr Pro Val Phe Gln Pro Arg Gly Ser Arg Cys Leu Leu Trp Lys Glu
      260             265             270
Lys Val Cys Pro Cys Phe Gly Glu Lys Ser Ser Pro Pro Arg Ser His
      275             280             285
Pro Cys Phe Phe Asp Leu Ser Arg Ala Pro Ser Glu Thr His Ile Leu
      290             295             300
Thr Pro Ala Ser Glu Pro Val Phe Tyr Gln Val Met Glu Arg Ser Pro
      305             310             315             320
Ala Gly Gly Val Gly Thr Pro Ala Asp Thr Gln Pro Ser Ser Ser Ala
      325             330             335

```

Ala Gly Gln Ala Gly Gln Tyr Leu Glu Thr Gly Gly Ala Ala Leu Leu
 340 345 350
 Trp Ala Val Pro Pro Leu Val Gly Pro *
 355 360 361

<210> 1231
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1231
 Met Leu Arg Leu Gly Val Ala Phe His Met Glu Leu Leu Cys Arg Gly
 1 5 10 15
 Arg Leu Leu Leu Leu Ile Pro Thr Ala Glu Thr Arg Cys Asp His Arg
 20 25 30
 Arg Leu Gln Asn Leu Lys Leu Gly Leu Ser Asn Thr Leu Asp Lys His
 35 40 45
 Gln Glu Pro His *
 50 52

<210> 1232
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1232
 Met Leu Asn Phe Ile Ser Pro Phe Gly Ser Thr Ile Leu Leu Leu Ile
 1 5 10 15
 Pro Ser Ala Leu Pro Pro Ser Pro Pro Ser Arg Cys Ser Leu Leu Ser
 20 25 30
 Pro Pro Pro Thr Thr Pro Leu Pro Leu Pro Leu Pro Ser Pro Phe Ser
 35 40 45
 Ser Pro Leu Leu Ser Phe Phe *
 50 55

<210> 1233
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1233
 Met Gln Leu His Val Ser Leu Pro Trp Leu Leu Arg Phe Pro Gly Leu
 1 5 10 15
 Asp Cys Thr Leu His Pro Asp Gln Pro Ser Ile Gln Leu Leu Gln Gly
 20 25 30
 Thr Ile Asp Leu Leu Asp Ser Val Ile Leu Ser Cys Ser Leu Cys Leu
 35 40 45
 Phe Gly Val Leu Gln Met His Ile
 50 55 56

<210> 1234
 <211> 125
 <212> PRT
 <213> Homo sapiens

<400> 1234
 Met Leu Ser Gln Leu Pro Arg Cys Gln Ser Ser Val Pro Ala Leu Ala
 1 5 10 15
 His Pro Thr Arg Leu His Tyr Leu Leu Arg Leu Leu Thr Phe Leu Leu
 20 25 30
 Gly Pro Gly Ala Gly Gly Ala Glu Ala Gln Gly Met Leu Gly Arg Ala
 35 40 45
 Leu Leu Leu Ser Ser Leu Pro Asp Asn Cys Ser Phe Trp Asp Ala Phe
 50 55 60
 Arg Pro Glu Gly Arg Arg Ser Val Leu Arg Thr Ile Gly Glu Tyr Leu
 65 70 75 80
 Glu Gln Asp Glu Glu Gln Pro Thr Pro Ser Gly Phe Glu Pro Thr Val
 85 90 95
 Asn Pro Ser Ser Gly Ile Ser Lys Met Glu Leu Leu Ala Cys Phe Ser
 100 105 110
 Val Ser Ala Leu Pro Glu Gly Lys Leu Leu Glu Gln *
 115 120 124

<210> 1235
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1235
 Met Phe Cys Phe Leu His Val Phe Leu Val Ser Leu Pro Phe Leu Thr
 1 5 10 15
 Ser Tyr Ser Cys Leu Gln Ile Ile Ser Tyr Ser Ser Phe Lys Ala Trp
 20 25 30
 Phe Lys Tyr Pro Phe Leu Cys Lys Ile Phe Pro Thr Leu Pro Asn Asn
 35 40 45
 Asp Ser Leu Gln Gln Thr Pro Leu Val His Gly Val Cys Leu Gln Gln
 50 55 60
 Gly Val His His Arg Leu Ile *
 65 70 71

<210> 1236
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1236
 Met Ala Pro Gly Gly Ala Lys Gly Gln Gly Ala Ser Ala Leu Ala Leu
 1 5 10 15
 Leu Phe Ile Leu Ala Ser Pro Ala Thr Gly Gly Gly Pro Arg Leu Trp
 20 25 30

Arg Ala Gly Gly Leu Gly Phe Thr His Cys Gln Ala Asn Ser Thr Thr
 35 40 45 48

<210> 1237
 <211> 208
 <212> PRT
 <213> Homo sapiens

<400> 1237
 Met Ala Phe Leu Arg Lys Val Tyr Ser Ile Leu Ser Leu Gln Val Leu
 1 5 10 15
 Leu Thr Thr Val Thr Ser Thr Val Phe Leu Tyr Phe Glu Ser Val Arg
 20 25 30
 Thr Phe Val His Glu Ser Pro Ala Leu Ile Leu Leu Phe Ala Leu Gly
 35 40 45
 Ser Leu Gly Leu Ile Phe Ala Leu Ile Leu Asn Arg His Lys Tyr Pro
 50 55 60
 Leu Asn Leu Tyr Leu Leu Phe Gly Phe Thr Leu Leu Glu Ala Leu Thr
 65 70 75 80
 Val Ala Val Val Val Thr Phe Tyr Asp Val Tyr Ile Ile Leu Gln Ala
 85 90 95
 Phe Ile Leu Thr Thr Val Phe Phe Gly Leu Thr Val Tyr Thr Leu
 100 105 110
 Gln Ser Lys Lys Asp Phe Ser Lys Phe Gly Ala Gly Leu Phe Ala Leu
 115 120 125
 Leu Trp Ile Leu Cys Leu Ser Gly Phe Leu Lys Phe Phe Phe Tyr Ser
 130 135 140
 Glu Ile Met Glu Leu Val Leu Ala Ala Ala Gly Ala Leu Leu Phe Cys
 145 150 155 160
 Gly Phe Ile Ile Tyr Asp Thr His Ser Leu Met His Lys Leu Ser Pro
 165 170 175
 Glu Glu Tyr Val Leu Ala Ala Ile Ser Leu Tyr Leu Asp Ile Ile Asn
 180 185 190
 Leu Phe Leu His Leu Leu Arg Phe Leu Glu Ala Val Asn Lys Lys *
 195 200 205 207

<210> 1238
 <211> 173
 <212> PRT
 <213> Homo sapiens

<400> 1238
 Met Lys Val Val Pro Ser Leu Leu Leu Ser Val Leu Leu Ala Gln Val
 1 5 10 15
 Trp Leu Val Pro Gly Leu Ala Pro Ser Pro Gln Ser Pro Glu Thr Pro
 20 25 30
 Ala Pro Gln Asn Gln Thr Ser Arg Val Val Gln Ala Pro Lys Glu Glu
 35 40 45
 Glu Glu Asp Glu Gln Glu Ala Ser Glu Glu Lys Ala Ser Glu Glu Glu
 50 55 60
 Lys Ala Trp Leu Met Ala Ser Arg Gln Gln Leu Ala Lys Glu Thr Ser

```

65          70          75          80
Asn Phe Gly Phe Ser Leu Leu Arg Lys Ile Ser Met Arg His Asp Gly
      85          90          95
Asn Met Val Phe Ser Pro Phe Gly Met Ser Leu Ala Met Thr Gly Leu
      100        105        110
Met Leu Gly Ala Thr Gly Pro Thr Glu Thr Gln Ile Lys Arg Gly Leu
      115        120        125
His Leu Gln Ala Leu Lys Pro Thr Lys Pro Gly Leu Leu Pro Ser Leu
      130        135        140
Phe Lys Gly Leu Arg Glu Thr Leu Ser Arg Asn Leu Glu Leu Gly Leu
145          150          155          160
Thr Ala Gly Glu Phe Cys Leu His Pro Gln Gly Phe *
      165          170          172

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<210> 1239
<211> 357
<212> PRT
<213> Homo sapiens

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<400> 1239
Met Ala Phe Leu Gly Leu Phe Ser Leu Leu Val Leu Gln Ser Met Ala
 1          5          10          15
Thr Gly Ala Thr Phe Pro Glu Glu Ala Ile Ala Asp Leu Ser Val Asn
      20          25          30
Met Tyr Asn Arg Leu Arg Ala Thr Gly Glu Asp Glu Asn Ile Leu Phe
      35          40          45
Ser Pro Leu Ser Ile Ala Leu Ala Met Gly Met Met Glu Leu Gly Ala
      50          55          60
Gln Gly Ser Thr Gln Lys Glu Ile Arg His Ser Met Gly Tyr Asp Ser
      65          70          75          80
Leu Lys Asn Gly Glu Glu Phe Ser Phe Leu Lys Glu Phe Ser Asn Met
      85          90          95
Val Thr Ala Lys Glu Ser Gln Tyr Val Met Lys Ile Ala Asn Ser Leu
      100        105        110
Phe Val Gln Asn Gly Phe His Val Asn Glu Glu Phe Leu Gln Met Met
      115        120        125
Lys Lys Tyr Phe Asn Ala Ala Val Asn His Val Asp Phe Ser Gln Asn
      130        135        140
Val Ala Val Ala Asn Tyr Ile Asn Lys Trp Val Glu Asn Asn Thr Asn
145          150          155          160
Asn Leu Val Lys Asp Leu Val Ser Pro Arg Asp Phe Asp Ala Ala Thr
      165        170        175
Tyr Leu Ala Leu Ile Asn Ala Val Tyr Phe Lys Gly Asn Trp Lys Ser
      180        185        190
Gln Phe Arg Pro Glu Asn Thr Arg Thr Phe Ser Phe Thr Lys Asp Asp
      195        200        205
Glu Ser Glu Val Gln Ile Pro Met Met Tyr Gln Gln Gly Glu Phe Tyr
      210        215        220
Tyr Gly Glu Phe Ser Asp Gly Ser Asn Glu Ala Gly Gly Ile Tyr Gln
225          230          235          240
Val Leu Glu Ile Pro Tyr Glu Gly Asp Glu Ile Ser Met Met Leu Val
      245        250        255
Leu Ser Arg Gln Glu Val Pro Leu Ala Thr Leu Glu Pro Leu Val Lys
      260        265        270
Ala Gln Leu Val Glu Glu Trp Ala Asn Ser Val Lys Lys Gln Lys Val
      275        280        285

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Glu Val Tyr Leu Pro Arg Phe Thr Val Glu Gln Glu Ile Asp Leu Lys
 290 295 300
 Asp Val Leu Lys Ala Leu Gly Ile Thr Glu Ile Phe Ile Lys Asp Ala
 305 310 315 320
 Asn Leu Thr Gly Leu Ser Asp Asn Lys Glu Ile Phe Leu Ser Lys Ala
 325 330 335
 Ile His Lys Ser Phe Leu Glu Val Asn Glu Glu Ala Gln Lys Leu Leu
 340 345 350
 Leu Ser Gln Glu *
 355 356

<210> 1240
 <211> 707
 <212> PRT
 <213> Homo sapiens

<400> 1240
 Met Leu Ser Leu Arg Arg Cys Thr Ser Met Arg Leu Cys Leu Ser Ser
 1 5 10 15
 Ser Leu Ala Ser Pro Cys Ser Thr Met Leu Ser Thr Val Val Leu Tyr
 20 25 30
 Lys Val Cys Asn Ser Phe Val Glu Met Gly Ser Ala Asn Val Gln Ala
 35 40 45
 Thr Asp Tyr Leu Lys Gly Val Ala Ser Leu Phe Val Val Ser Leu Gly
 50 55 60
 Gly Ala Ala Val Gly Leu Val Phe Ala Phe Leu Leu Ala Leu Thr Thr
 65 70 75 80
 Arg Phe Thr Lys Arg Val Arg Ile Ile Glu Pro Leu Leu Val Phe Leu
 85 90 95
 Leu Ala Tyr Ala Ala Tyr Leu Thr Ala Glu Met Ala Ser Leu Ser Ala
 100 105 110
 Ile Leu Ala Val Thr Met Cys Gly Leu Gly Cys Lys Lys Tyr Val Glu
 115 120 125
 Ala Asn Ile Ser His Lys Ser Arg Thr Thr Val Lys Tyr Thr Met Lys
 130 135 140
 Thr Leu Ala Ser Cys Ala Glu Thr Val Ile Phe Met Leu Leu Gly Ile
 145 150 155 160
 Ser Thr Val Asp Ser Ser Lys Trp Ala Trp Asp Ser Gly Leu Val Leu
 165 170 175
 Gly Thr Leu Ile Phe Ile Leu Phe Phe Arg Ala Leu Gly Val Val Leu
 180 185 190
 Gln Thr Trp Val Leu Asn Gln Phe Arg Leu Val Pro Leu Asp Lys Ile
 195 200 205
 Asp Gln Val Val Met Ser Tyr Gly Gly Leu Arg Gly Ala Val Ala Phe
 210 215 220
 Ala Leu Val Ile Leu Leu Asp Arg Thr Lys Val Pro Ala Lys Asp Tyr
 225 230 235 240
 Phe Val Ala Thr Thr Ile Val Val Val Phe Phe Thr Val Ile Val Gln
 245 250 255
 Gly Leu Thr Ile Lys Pro Leu Val Lys Trp Leu Lys Val Lys Arg Ser
 260 265 270
 Glu His His Lys Pro Thr Leu Asn Gln Glu Leu His Glu His Thr Phe
 275 280 285
 Asp His Ile Leu Ala Ala Val Glu Asp Val Val Gly His His Gly Tyr
 290 295 300
 His Tyr Trp Arg Asp Arg Trp Glu Gln Phe Asp Lys Lys Tyr Leu Ser

```

305          310          315          320
Gln Leu Leu Met Arg Arg Ser Ala Tyr Arg Ile Arg Asp Gln Ile Trp
          325          330          335
Asp Val Tyr Tyr Arg Leu Asn Ile Arg Asp Ala Ile Ser Phe Val Asp
          340          345          350
Gln Gly Gly His Val Leu Ser Ser Thr Gly Leu Thr Leu Pro Ser Met
          355          360          365
Pro Ser Arg Asn Ser Val Ala Glu Thr Ser Val Thr Asn Leu Leu Arg
          370          375          380
Glu Ser Gly Ser Gly Ala Cys Leu Asp Leu Gln Val Ile Asp Thr Val
385          390          395          400
Arg Ser Gly Arg Asp Arg Glu Asp Ala Val Met His His Leu Leu Cys
          405          410          415
Gly Gly Leu Tyr Lys Pro Arg Arg Arg Tyr Lys Ala Ser Cys Ser Arg
          420          425          430
His Phe Ile Ser Glu Asp Ala Gln Glu Arg Gln Asp Lys Glu Val Phe
          435          440          445
Gln Gln Asn Met Lys Arg Arg Leu Glu Ser Phe Lys Ser Thr Lys His
          450          455          460
Asn Ile Cys Phe Thr Lys Ser Lys Pro Arg Pro Arg Lys Thr Gly Arg
465          470          475          480
Arg Lys Lys Asp Gly Val Ala Asn Ala Glu Ala Thr Asn Gly Lys His
          485          490          495
Arg Gly Leu Gly Phe Gln Asp Thr Ala Ala Val Ile Leu Thr Val Glu
          500          505          510
Ser Glu Glu Glu Glu Glu Ser Asp Ser Ser Glu Thr Glu Lys Glu
          515          520          525
Asp Asp Glu Gly Ile Ile Phe Val Ala Arg Ala Thr Ser Glu Val Leu
          530          535          540
Gln Glu Gly Lys Val Ser Gly Ser Leu Glu Val Cys Pro Ser Pro Arg
545          550          555          560
Ile Ile Pro Pro Ser Pro Thr Cys Ala Glu Lys Glu Leu Pro Trp Lys
          565          570          575
Ser Gly Gln Gly Asp Leu Ala Val Tyr Val Ser Ser Glu Thr Thr Lys
          580          585          590
Ile Val Pro Val Asp Met Gln Thr Gly Trp Asn Gln Ser Ile Ser Ser
          595          600          605
Leu Glu Ser Leu Ala Ser Pro Pro Cys Asn Gln Ala Pro Ile Leu Thr
          610          615          620
Cys Leu Pro Pro His Pro Arg Gly Thr Glu Glu Pro Gln Val Pro Leu
625          630          635          640
His Leu Pro Ser Asp Pro Arg Ser Ser Phe Ala Phe Pro Pro Ser Leu
          645          650          655
Ala Lys Ala Gly Arg Ser Arg Ser Glu Ser Ser Ala Asp Leu Pro Gln
          660          665          670
Gln Gln Glu Leu Gln Pro Leu Met Gly His Lys Asp His Thr His Leu
          675          680          685
Ser Pro Gly Thr Ala Thr Ser His Trp Cys Ile Gln Phe Asn Arg Gly
690          695          700
Ser Arg Leu
705          707

```

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<210> 1241
<211> 98
<212> PRT
<213> Homo sapiens

```

<400> 1241

```

Met Ala Phe Arg Thr Phe Ser Trp Ile Phe Ser Gly Leu Leu Ser Pro
 1          5          10          15
Thr Leu Ala Ser Pro Ser Val Ser Met Met Thr Met Glu Val Leu Leu
          20          25          30
Ser Gly Ile Leu Cys Ser Ser Arg Ala Leu Phe Ser Ile Leu Met Pro
          35          40          45
Leu Ser Ser Pro Ser Leu Met Leu Val Ile Pro Leu Ser Ser Met Leu
          50          55          60
Phe Thr Asn Val Leu Ala Ser Trp Arg Phe Ser Gly Val Ala Trp Thr
65          70          75          80
Lys Cys Ser Phe His Val Asp Thr Ser Pro Leu Asn Arg Met Lys Phe
          85          90          95
Arg *
97

```

<210> 1242

<211> 422

<212> PRT

<213> Homo sapiens

<400> 1242

```

Met Val Leu Trp Glu Ser Pro Arg Gln Cys Ser Ser Trp Thr Leu Cys
 1          5          10          15
Glu Gly Phe Cys Trp Leu Leu Leu Leu Pro Val Met Leu Leu Ile Val
          20          25          30
Ala Arg Pro Val Lys Leu Ala Ala Phe Pro Thr Ser Leu Ser Asp Cys
          35          40          45
Gln Thr Pro Thr Gly Trp Asn Cys Ser Gly Tyr Asp Asp Arg Glu Asn
          50          55          60
Asp Leu Phe Leu Cys Asp Thr Asn Thr Cys Lys Phe Asp Gly Glu Cys
65          70          75          80
Leu Arg Ile Gly Asp Thr Val Thr Cys Val Cys Gln Phe Lys Cys Asn
          85          90          95
Asn Asp Tyr Val Pro Val Cys Gly Ser Asn Gly Glu Ser Tyr Gln Asn
          100          105          110
Glu Cys Tyr Leu Arg Gln Ala Ala Cys Lys Gln Gln Ser Glu Ile Leu
          115          120          125
Val Val Ser Glu Gly Ser Cys Ala Thr Asp Ala Gly Ser Gly Ser Gly
          130          135          140
Asp Gly Val His Glu Gly Ser Gly Glu Thr Ser Gln Lys Glu Thr Ser
145          150          155          160
Thr Cys Asp Ile Cys Gln Phe Gly Ala Glu Cys Asp Glu Asn Ala Glu
          165          170          175
Asp Val Trp Cys Val Cys Asn Ile Asp Cys Ser Gln Thr Asn Phe Asn
          180          185          190
Pro Leu Cys Ala Ser Asp Gly Lys Ser Tyr Asp Asn Ala Cys Gln Ile
          195          200          205
Lys Glu Ala Ser Cys Gln Lys Gln Glu Lys Ile Glu Val Leu Ser Leu
          210          215          220
Gly Arg Cys Gln Asp Asn Thr Thr Thr Thr Thr Lys Ser Glu Asp Gly
225          230          235          240
His Tyr Ala Arg Thr Asp Tyr Ala Glu Asn Ala Asn Lys Leu Glu Glu
          245          250          255
Ser Ala Arg Glu His His Ile Pro Cys Pro Glu His Tyr Asn Gly Phe

```

```

      260      265      270
Cys Met His Gly Lys Cys Glu His Ser Ile Asn Met Gln Glu Pro Ser
      275      280      285
Cys Arg Cys Asp Ala Gly Tyr Thr Gly Gln His Cys Glu Lys Lys Asp
      290      295      300
Tyr Ser Val Leu Tyr Val Val Pro Gly Pro Val Arg Phe Pro Val Cys
305      310      315      320
Leu Asn Arg Ser Cys Asp Trp Asn Asn Ser Asp Cys Cys His Leu Cys
      325      330      335
Gly Gly Pro Leu His His Lys Glu Met Pro Pro Glu Ala Asn Arg Ile
      340      345      350
Pro Pro Asp Arg Ser Lys Ile Pro Gly His Tyr Ser Ser Arg Gln Tyr
      355      360      365
Asn Lys Ser Arg Pro Thr Arg Leu Ile Leu Lys Gly Ala Cys Phe His
      370      375      380
Ser Gly Trp Thr Thr Glu Ser Leu Asp Tyr Thr Ile Gln Tyr Tyr Arg
385      390      395      400
Gln Lys Asn Lys Thr Arg Asp Leu Thr His Val Cys Leu Ala Phe Val
      405      410      415
Gly Asn Leu His Gln *
      420 421

```

```

<210> 1243
<211> 46
<212> PRT
<213> Homo sapiens

```

```

<400> 1243
Met Leu Phe Val Phe Ile Cys Ser Tyr Phe His Leu Ser Leu Phe Leu
 1      5      10      15
Leu Phe Pro Phe Leu Pro Val Ser Leu Pro Ser Phe Leu Pro Phe Phe
      20      25      30
Leu Pro Ser Phe Leu Glu Phe Thr Glu Val Phe Pro Arg *
      35      40      45

```

```

<210> 1244
<211> 46
<212> PRT
<213> Homo sapiens

```

```

<400> 1244
Met Val Leu Ser Ala Pro Ser Leu Trp Pro Cys Ser Ser Phe Ser Ile
 1      5      10      15
Ser Cys Leu His Val Gly Leu Thr Ala Phe Leu Phe Gln Val Ala Phe
      20      25      30
Leu Cys Leu Leu Cys Cys Val Glu Leu Leu Leu Asp Val *
      35      40      45

```

```

<210> 1245
<211> 244
<212> PRT

```

<213> Homo sapiens

<400> 1245

```

Met Ala Gly Val Ile Ala Gly Leu Leu Met Phe Ile Ile Ile Leu Leu
 1          5          10          15
Gly Val Met Leu Thr Ile Lys Arg Arg Asn Ala Tyr Ser Tyr Ser
          20          25          30
Tyr Tyr Leu Lys Leu Ala Lys Lys Gln Lys Glu Thr Gln Ser Gly Ala
          35          40          45
Gln Arg Glu Met Gly Pro Val Ala Ser Ala Asp Lys Pro Thr Thr Lys
          50          55          60
Leu Ser Ala Ser Arg Asn Asp Glu Gly Phe Ser Ser Ser Ser Gln Asp
          65          70          75          80
Val Asn Gly Phe Asn Gly Ser Arg Gly Glu Leu Ser Gln Pro Thr Leu
          85          90          95
Thr Ile Gln Thr His Pro Tyr Arg Thr Cys Asp Pro Val Glu Met Ser
          100          105          110
Tyr Pro Arg Asp Gln Phe Gln Pro Ala Ile Arg Val Ala Asp Leu Leu
          115          120          125
Gln His Ile Thr Gln Met Lys Arg Gly Gln Gly Tyr Gly Phe Lys Glu
          130          135          140
Glu Tyr Glu Ala Leu Pro Glu Gly Gln Thr Ala Ser Trp Asp Thr Ala
145          150          155          160
Lys Glu Asp Glu Asn Arg Asn Lys Asn Arg Tyr Gly Asn Ile Ile Ser
          165          170          175
Tyr Asp His Ser Arg Val Arg Leu Leu Val Leu Asp Gly Asp Pro His
          180          185          190
Ser Asp Tyr Ile Asn Ala Asn Tyr Ile Asp Gly Tyr His Arg Pro Arg
          195          200          205
His Tyr Ile Ala Thr Gln Gly Pro Met Gln Glu Thr Val Lys Asp Phe
          210          215          220
Trp Arg Met Ile Trp Gln Glu Asn Ser Ala Ser Ile Val Met Val Thr
225          230          235          240
Asn Pro Gly *
          243

```

<210> 1246

<211> 565

<212> PRT

<213> Homo sapiens

<400> 1246

```

Met Ala Val Phe Arg Ser Gly Leu Leu Val Leu Thr Thr Pro Leu Ala
 1          5          10          15
Ser Leu Ala Pro Arg Leu Ala Ser Ile Leu Thr Ser Ala Ala Arg Leu
          20          25          30
Val Asn His Thr Leu Tyr Val His Leu Gln Pro Gly Met Ser Leu Glu
          35          40          45
Gly Pro Ala Gln Pro Gln Tyr Ser Pro Val Gln Ala Thr Phe Glu Val
          50          55          60
Leu Asp Phe Ile Thr His Leu Tyr Ala Gly Ala Asp Val His Arg His
          65          70          75          80
Leu Asp Val Arg Ile Leu Leu Thr Asn Ile Arg Thr Lys Ser Thr Phe
          85          90          95
Leu Pro Pro Leu Pro Thr Ser Val Gln Asn Leu Ala His Pro Pro Glu

```

100	105	110
Val Val Leu Thr Asp Phe Gln Thr Leu Asp Gly Ser Gln Tyr Asn Pro		
115	120	125
Val Lys Gln Gln Leu Val Arg Tyr Ala Thr Ser Cys Tyr Ser Cys Cys		
130	135	140
Pro Arg Leu Ala Ser Val Leu Leu Tyr Ser Asp Tyr Gly Ile Gly Glu		
145	150	155
Val Pro Val Glu Pro Leu Asp Val Pro Leu Pro Ser Thr Ile Arg Pro		
165	170	175
Ala Ser Pro Val Ala Gly Ser Pro Lys Gln Pro Val Arg Gly Tyr Tyr		
180	185	190
Arg Gly Ala Val Gly Gly Thr Phe Asp Arg Leu His Asn Ala His Lys		
195	200	205
Val Leu Leu Ser Val Ala Cys Ile Leu Ala Gln Glu Gln Leu Val Val		
210	215	220
Gly Val Ala Asp Lys Asp Leu Leu Lys Ser Lys Leu Leu Pro Glu Leu		
225	230	235
Leu Gln Pro Tyr Thr Glu Arg Val Glu His Leu Ser Glu Phe Leu Val		
245	250	255
Asp Ile Lys Pro Ser Leu Thr Phe Asp Val Ile Pro Leu Leu Asp Pro		
260	265	270
Tyr Gly Pro Ala Gly Ser Asp Pro Ser Leu Glu Phe Leu Val Val Ser		
275	280	285
Glu Glu Thr Tyr Arg Gly Gly Met Ala Ile Asn Arg Phe Arg Leu Glu		
290	295	300
Asn Asp Leu Glu Glu Leu Ala Leu Tyr Gln Ile Gln Leu Leu Lys Asp		
305	310	315
Leu Arg His Thr Glu Asn Glu Glu Asp Lys Val Ser Ser Ser Ser Phe		
325	330	335
Arg Gln Arg Met Leu Gly Asn Leu Leu Arg Pro Pro Tyr Glu Arg Pro		
340	345	350
Glu Leu Pro Thr Cys Leu Tyr Val Ile Gly Leu Thr Gly Ile Ser Gly		
355	360	365
Ser Gly Lys Ser Ser Ile Ala Gln Arg Leu Lys Gly Leu Gly Ala Phe		
370	375	380
Val Ile Asp Ser Asp His Leu Gly His Arg Ala Tyr Ala Pro Gly Gly		
385	390	395
Pro Ala Tyr Gln Pro Val Val Glu Ala Phe Gly Thr Asp Ile Leu His		
405	410	415
Lys Asp Gly Ile Ile Asn Arg Lys Val Leu Gly Ser Arg Val Phe Gly		
420	425	430
Asn Lys Lys Gln Leu Lys Ile Leu Thr Asp Ile Met Trp Pro Ile Ile		
435	440	445
Ala Lys Leu Ala Arg Glu Glu Met Asp Arg Ala Val Ala Glu Gly Lys		
450	455	460
Arg Val Cys Val Ile Asp Ala Ala Val Leu Leu Glu Ala Gly Trp Gln		
465	470	475
Asn Leu Val His Glu Val Trp Thr Ala Val Ile Pro Glu Thr Glu Ala		
485	490	495
Val Arg Arg Ile Val Glu Arg Asp Gly Leu Ser Glu Ala Ala Gln		
500	505	510
Ser Arg Leu Gln Ser Gln Met Ser Gly Gln Gln Leu Val Glu Gln Ser		
515	520	525
His Val Val Leu Ser Thr Leu Trp Glu Pro His Ile Thr Gln Arg Gln		
530	535	540
Val Glu Lys Ala Trp Ala Leu Leu Gln Lys Arg Ile Pro Lys Thr His		
545	550	555
Gln Ala Leu Asp *		
564		

<210> 1247
 <211> 737
 <212> PRT
 <213> Homo sapiens

<400> 1247
 Met Phe Pro Ala Gly Pro Pro Trp Pro Arg Val Arg Val Val Gln Val
 1 5 10 15
 Leu Trp Ala Leu Leu Ala Val Leu Leu Ala Ser Trp Arg Leu Trp Ala
 20 25 30
 Ile Lys Asp Phe Gln Glu Cys Thr Trp Gln Val Val Leu Asn Glu Phe
 35 40 45
 Lys Arg Val Gly Glu Ser Gly Val Ser Asp Ser Phe Phe Glu Gln Glu
 50 55 60
 Pro Val Asp Thr Val Ser Ser Leu Phe His Met Leu Val Asp Ser Pro
 65 70 75 80
 Ile Asp Pro Ser Glu Lys Tyr Leu Gly Phe Pro Tyr Tyr Leu Lys Ile
 85 90 95
 Asn Tyr Ser Cys Glu Glu Lys Pro Ser Glu Asp Leu Val Arg Met Gly
 100 105 110
 His Leu Thr Gly Leu Lys Pro Leu Val Leu Val Thr Phe Gln Ser Pro
 115 120 125
 Val Asn Phe Tyr Arg Trp Lys Ile Glu Gln Leu Gln Ile Gln Met Glu
 130 135 140
 Ala Ala Pro Phe Arg Ser Lys Gly Gly Pro Gly Gly Gly Gly Arg Asp
 145 150 155 160
 Arg Asn Leu Ala Gly Met Asn Ile Asn Gly Phe Leu Lys Arg Asp Arg
 165 170 175
 Asp Asn Asn Ile Gln Phe Thr Val Gly Glu Glu Leu Phe Asn Leu Met
 180 185 190
 Pro Gln Tyr Phe Val Gly Val Ser Ser Arg Pro Leu Trp His Thr Val
 195 200 205
 Asp Gln Ser Pro Val Leu Ile Leu Gly Gly Ile Pro Asn Glu Lys Tyr
 210 215 220
 Val Leu Met Thr Asp Thr Ser Phe Lys Asp Phe Ser Leu Val Glu Val
 225 230 235 240
 Asn Gly Val Gly Gln Met Leu Ser Ile Asp Ser Cys Trp Val Gly Ser
 245 250 255
 Phe Tyr Cys Pro His Ser Gly Phe Thr Ala Thr Ile Tyr Asp Thr Ile
 260 265 270
 Ala Thr Glu Ser Thr Leu Phe Ile Arg Gln Asn Gln Leu Val Tyr Tyr
 275 280 285
 Phe Thr Gly Thr Tyr Thr Thr Leu Tyr Glu Arg Asn Arg Gly Ser Gly
 290 295 300
 Glu Cys Ala Val Ala Gly Pro Thr Pro Gly Glu Gly Thr Leu Val Asn
 305 310 315 320
 Pro Ser Thr Glu Gly Ser Trp Ile Arg Val Leu Ala Ser Glu Cys Ile
 325 330 335
 Lys Lys Leu Cys Pro Val Tyr Phe His Ser Asn Gly Ser Glu Tyr Ile
 340 345 350
 Met Ala Leu Thr Thr Gly Lys His Glu Gly Tyr Val His Phe Gly Thr
 355 360 365
 Ile Arg Val Thr Thr Cys Ser Ile Ile Trp Ser Glu Tyr Ile Ala Gly
 370 375 380
 Glu Tyr Thr Leu Leu Leu Leu Val Glu Ser Gly Tyr Gly Asn Ala Ser

```

385          390          395          400
Lys Arg Phe Gln Val Ser Tyr Asn Thr Ala Ser Asp Asp Leu Glu
          405          410          415
Leu Leu Tyr His Ile Pro Glu Phe Ile Pro Glu Ala Arg Gly Leu Glu
          420          425          430
Phe Leu Met Ile Leu Gly Thr Glu Ser Tyr Thr Ser Thr Ala Met Ala
          435          440          445
Pro Lys Gly Ile Phe Cys Asn Pro Tyr Asn Asn Leu Ile Phe Ile Trp
          450          455          460
Gly Asn Phe Leu Leu Gln Ser Ser Asn Lys Glu Asn Phe Ile Tyr Leu
465          470          475          480
Ala Asp Phe Pro Lys Glu Leu Ser Ile Lys Tyr Met Ala Arg Ser Phe
          485          490          495
Arg Gly Ala Val Ala Ile Val Thr Glu Thr Glu Glu Ile Trp Tyr Leu
          500          505          510
Leu Glu Gly Ser Tyr Arg Val Tyr Gln Leu Phe Pro Ser Lys Gly Trp
          515          520          525
Gln Val His Ile Ser Leu Lys Leu Met Gln Gln Ser Ser Leu Tyr Ala
          530          535          540
Ser Asn Glu Thr Met Leu Thr Leu Phe Tyr Glu Asp Ser Lys Leu Tyr
545          550          555          560
Gln Leu Val Tyr Leu Met Asn Asn Gln Lys Gly Gln Leu Val Lys Arg
          565          570          575
Leu Val Pro Val Glu Gln Leu Leu Met Tyr Gln Gln His Thr Ser His
          580          585          590
Tyr Asp Leu Glu Arg Lys Gly Gly Tyr Leu Met Leu Ser Phe Ile Asp
          595          600          605
Phe Cys Pro Phe Ser Val Met Arg Leu Arg Ser Leu Pro Ser Pro Gln
          610          615          620
Arg Tyr Thr Arg Gln Glu Arg Tyr Arg Ala Arg Pro Pro Arg Val Leu
625          630          635          640
Glu Arg Ser Gly Phe Pro Gln Gly Glu Leu Ala Arg His Leu Pro Gly
          645          650          655
Pro Gly Leu Leu Pro Ala Val Ala Ala Leu Arg Val Arg Gln Ala Val
          660          665          670
Arg Gly Pro Gly Ala Arg Pro His Leu Ala Leu Val Gly Glu Gln Gln
          675          680          685
Thr Arg Pro Gly Leu Leu Leu Leu Leu Gly Glu Gln Leu Ala Lys Arg
          690          695          700
Gly Arg Arg Val His Arg Asn Gly Gln Leu Arg Lys Asp Leu Gln Pro
705          710          715          720
Arg Val Arg Val Arg Ala Ala Gly Ala His Phe Pro Gly Gln Gly His
          725          730          735 736

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<210> 1248
<211> 175
<212> PRT
<213> Homo sapiens

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```

<400> 1248
Met Gly Trp Val Trp Thr Leu Cys Thr Ala Ser Ala Cys Leu Thr Leu
  1              5              10              15
Leu Phe Trp Ser Gln Thr Pro Gly Lys Ala Phe Gln Ile Pro Cys Pro
          20              25              30

```



```

Pro Pro His Leu Ser His Trp Cys Leu Ser Pro Met Gln Met Asp Asp
      35      40      45
Gly Cys Ala Arg Leu Cys Val Leu Trp Thr Ala Trp Met Arg Trp Arg
      50      55      60
Val Leu Met Cys Ser Cys Arg Val Trp Ala Thr Asp Leu Gly Ile Phe
65      70      75      80
Leu Gly Val Ala Leu Gly Asn Glu Pro Leu Glu Met Trp Pro Leu Thr
      85      90      95
Gln Asn Glu Glu Cys Thr Val Thr Gly Phe Leu Arg Asp Lys Leu Gln
      100      105      110
Tyr Arg Ser Arg Leu Gln Tyr Met Lys His Tyr Phe Pro Ile Asn Tyr
      115      120      125
Lys Ile Arg Val Pro Tyr Glu Gly Val Phe Arg Ile Ala Asn Val Thr
      130      135      140
Arg Leu Arg Ala Gln Gly Ser Glu Arg Glu Leu Arg Tyr Leu Gly Val
145      150      155      160
Leu Val Ser Leu Ser Ala Thr Glu Ser Val His Asp Glu Leu Leu
      165      170      175

```

<210> 1249
 <211> 68
 <212> PRT
 <213> Homo sapiens

```

<400> 1249
Met Phe His Arg Cys Arg Leu Lys Ala Gly Leu Met Leu Trp Arg Ser
1      5      10      15
Leu Glu Ser Gly Leu Cys Ala Gly Ala His Arg Leu Trp Leu Glu Gly
      20      25      30
Pro Met Ala Phe Pro Glu Leu Gly Glu Lys Asp Pro Leu Leu Ala Ser
      35      40      45
Pro Leu Ala Leu Ile Pro Gln Ser Leu Ile Gly Leu Gly Gly Leu Arg
      50      55      60
Gly Ala Trp *
65      67

```

<210> 1250
 <211> 209
 <212> PRT
 <213> Homo sapiens

```

<400> 1250
Met Ser Phe Cys Phe Thr Phe Leu Ser Leu Leu Pro Ala Cys Ile Lys
1      5      10      15
Leu Ile Leu Gln Pro Ser Ser Lys Gly Phe Lys Phe Thr Leu Val Ser
      20      25      30
Cys Ala Leu Ser Phe Phe Leu Phe Ser Phe Gln Val His Glu Lys Ser
      35      40      45
Ile Leu Leu Val Ser Leu Pro Val Cys Leu Val Leu Ser Glu Ile Pro
      50      55      60
Phe Met Ser Thr Trp Phe Leu Leu Val Ser Thr Phe Ser Met Leu Pro
      65      70      75      80
Leu Leu Leu Lys Asp Glu Leu Leu Met Pro Ser Val Val Thr Thr Met

```

```

      85      90      95
Ala Phe Phe Ile Ala Cys Val Thr Ser Phe Ser Ile Phe Glu Lys Thr
      100      105      110
Ser Glu Glu Glu Leu Gln Leu Lys Ser Phe Ser Ile Ser Val Arg Lys
      115      120      125
Tyr Leu Pro Cys Phe Thr Phe Leu Ser Arg Ile Ile Gln Tyr Leu Phe
      130      135      140
Leu Ile Ser Val Ile Thr Met Val Leu Leu Thr Leu Met Thr Val Thr
      145      150      155      160
Leu Asp Pro Pro Gln Lys Leu Pro Asp Leu Phe Ser Val Leu Val Cys
      165      170      175
Phe Val Ser Cys Leu Asn Phe Leu Phe Phe Leu Val Tyr Phe Asn Ile
      180      185      190
Ile Ile Met Trp Asp Ser Lys Ser Gly Arg Asn Gln Lys Lys Ile Ser
      195      200      205      208
*
```

```

<210> 1251
<211> 58
<212> PRT
<213> Homo sapiens
```

```

<400> 1251
Met Ile Leu Leu Leu Ser Thr Phe Phe Cys Cys Phe Arg Glu Asp Ser
  1      5      10      15
Cys Phe Tyr Lys Lys Tyr Val Gly Leu Val Gln Trp Leu Met Pro Val
      20      25      30
Ile Pro Ala Leu Trp Glu Ala Lys Val Gly Gly Ser Leu Glu Val Trp
      35      40      45
Ser Ser Arg Pro Ala Trp Pro Ile Arg *
      50      55      57
```

```

<210> 1252
<211> 84
<212> PRT
<213> Homo sapiens
```

```

<400> 1252
Met Tyr Lys Asn Phe Cys Leu Phe Phe Ile Phe Ala Leu Tyr Gln Gly
  1      5      10      15
Leu Ala Asn Tyr Gly Leu Trp Ala Asn Ser Asn Pro Leu His Val Ser
      20      25      30
Val Tyr Lys Ile Leu Leu Gly Cys Val Pro Trp Leu Leu Ser Val Val
      35      40      45
Ser Ala Ser Arg Val Ala Gly Thr Thr Gly Thr His His Tyr Ala Trp
      50      55      60
Ile Ile Phe Cys Ile Phe Ser Thr Asp Gly Val Ser Pro Arg Trp Pro
      65      70      75      80
Arg Trp Ser *
      83
```

<210> 1253
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 1253
 Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
 1 5 10 15
 Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
 20 25 30
 Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
 35 40 45
 Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Glu
 50 55 60
 Gly Ala Gly Val Gly Leu Arg Phe *
 65 70 72

<210> 1254
 <211> 209
 <212> PRT
 <213> Homo sapiens

<400> 1254
 Met Ser Phe Cys Phe Thr Phe Leu Ser Leu Leu Pro Ala Cys Ile Lys
 1 5 10 15
 Leu Ile Leu Gln Pro Ser Ser Lys Gly Phe Lys Phe Thr Leu Val Ser
 20 25 30
 Cys Ala Leu Ser Phe Phe Leu Phe Ser Phe Gln Val His Glu Lys Ser
 35 40 45
 Ile Leu Leu Val Ser Leu Pro Val Cys Leu Val Leu Ser Glu Ile Pro
 50 55 60
 Phe Met Ser Thr Trp Phe Leu Leu Val Ser Thr Phe Ser Met Leu Pro
 65 70 75 80
 Leu Leu Leu Lys Asp Glu Leu Leu Met Pro Ser Val Val Thr Thr Met
 85 90 95
 Ala Phe Phe Ile Ala Cys Val Thr Ser Phe Ser Ile Phe Glu Lys Thr
 100 105 110
 Ser Glu Glu Glu Leu Gln Leu Lys Ser Phe Ser Ile Ser Val Arg Lys
 115 120 125
 Tyr Leu Pro Cys Phe Thr Phe Leu Ser Arg Ile Ile Gln Tyr Leu Phe
 130 135 140
 Leu Ile Ser Val Ile Thr Met Val Leu Leu Thr Leu Met Thr Val Thr
 145 150 155 160
 Leu Asp Pro Pro Gln Lys Leu Pro Asp Leu Phe Ser Val Leu Val Cys
 165 170 175
 Phe Val Ser Cys Leu Asn Phe Leu Phe Phe Leu Val Tyr Phe Asn Ile
 180 185 190
 Ile Ile Met Trp Asp Ser Lys Ser Gly Arg Asn Gln Lys Lys Ile Ser
 195 200 205 208

*

<210> 1255
 <211> 730
 <212> PRT
 <213> Homo sapiens

<400> 1255
 Met Gly Pro Trp Gly Trp Lys Leu Arg Trp Thr Val Ala Leu Leu Leu
 1 5 10 15
 Ala Ala Ala Gly Thr Ala Val Gly Asp Arg Cys Glu Arg Asn Glu Phe
 20 25 30
 Gln Cys Gln Asp Gly Lys Cys Ile Ser Tyr Lys Trp Val Cys Asp Gly
 35 40 45
 Ser Ala Glu Cys Gln Asp Gly Ser Asp Glu Ser Gln Glu Thr Cys Leu
 50 55 60
 Ser Val Thr Cys Lys Ser Gly Asp Phe Ser Cys Gly Gly Arg Val Asn
 65 70 75 80
 Arg Cys Ile Pro Gln Phe Trp Arg Cys Asp Gly Gln Val Asp Cys Asp
 85 90 95
 Asn Gly Ser Asp Glu Gln Gly Cys Pro Pro Lys Thr Cys Ser Gln Asp
 100 105 110
 Glu Phe Arg Cys His Asp Gly Lys Cys Ile Ser Arg Gln Phe Val Cys
 115 120 125
 Asp Ser Asp Arg Asp Cys Leu Asp Gly Ser Asp Glu Ala Ser Cys Pro
 130 135 140
 Val Leu Thr Cys Gly Pro Ala Ser Phe Gln Cys Asn Ser Ser Thr Cys
 145 150 155 160
 Ile Pro Gln Leu Trp Ala Cys Asp Asn Asp Pro Asp Cys Glu Asp Gly
 165 170 175
 Ser Asp Glu Trp Pro Gln Arg Cys Arg Gly Leu Tyr Val Phe Gln Gly
 180 185 190
 Asp Ser Ser Pro Cys Ser Ala Phe Glu Phe His Cys Leu Ser Gly Glu
 195 200 205
 Cys Ile His Ser Ser Trp Arg Cys Asp Gly Gly Pro Asp Cys Lys Asp
 210 215 220
 Lys Ser Asp Glu Glu Asn Cys Ala Val Ala Thr Cys Arg Pro Asp Glu
 225 230 235 240
 Phe Gln Cys Ser Asp Gly Asn Cys Ile His Gly Ser Arg Gln Cys Asp
 245 250 255
 Arg Glu Tyr Asp Cys Lys Asp Met Ser Asp Glu Val Gly Cys Val Asn
 260 265 270
 Val Thr Leu Cys Glu Gly Pro Asn Lys Phe Lys Cys His Ser Gly Glu
 275 280 285
 Cys Ile Thr Leu Asp Lys Val Cys Asn Met Ala Arg Asp Cys Arg Asp
 290 295 300
 Trp Ser Asp Glu Pro Ile Lys Glu Cys Gly Thr Asn Glu Cys Leu Asp
 305 310 315 320
 Asn Asn Gly Gly Cys Ser His Val Cys Asn Asp Leu Lys Ile Gly Tyr
 325 330 335
 Glu Cys Leu Cys Pro Asp Gly Phe Gln Leu Val Ala Gln Arg Arg Cys
 340 345 350
 Glu Asp Ile Asp Glu Cys Gln Asp Pro Asp Thr Cys Ser Gln Leu Cys
 355 360 365
 Val Asn Leu Glu Gly Gly Tyr Lys Cys Gln Cys Glu Glu Gly Phe Gln
 370 375 380
 Leu Asp Pro His Thr Lys Ala Cys Lys Ala Val Gly Ser Ile Ala Tyr
 385 390 395 400
 Leu Phe Phe Thr Asn Arg His Glu Val Arg Lys Met Thr Leu Asp Arg
 405 410 415

```

Ser Glu Tyr Thr Ser Leu Ile Pro Asn Leu Arg Asn Val Val Ala Leu
      420      425      430
Asp Thr Glu Val Ala Ser Asn Arg Ile Tyr Trp Ser Asp Leu Ser Gln
      435      440      445
Arg Met Ile Cys Ser Thr Gln Leu Asp Arg Ala His Gly Val Ser Ser
      450      455      460
Tyr Asp Thr Val Ile Ser Arg Asp Ile Gln Ala Pro Asp Gly Leu Ala
465      470      475      480
Val Asp Trp Ile His Ser Asn Ile Tyr Trp Thr Asp Ser Val Leu Gly
      485      490      495
Thr Val Ser Val Ala Asp Thr Lys Gly Val Lys Arg Lys Thr Leu Phe
      500      505      510
Arg Glu Asn Gly Ser Lys Pro Arg Ala Ile Val Val Asp Pro Val His
      515      520      525
Gly Phe Met Tyr Trp Thr Asp Trp Gly Thr Pro Ala Lys Ile Lys Lys
      530      535      540
Gly Gly Leu Asn Gly Val Asp Ile Tyr Ser Leu Val Thr Glu Asn Ile
545      550      555      560
Gln Trp Pro Asn Gly Ile Thr Leu Asp Leu Leu Ser Gly Arg Leu Tyr
      565      570      575
Trp Val Asp Ser Lys Leu His Ser Ile Ser Ser Ile Asp Val Asn Gly
      580      585      590
Gly Asn Arg Lys Thr Ile Leu Glu Asp Glu Lys Arg Leu Ala His Pro
      595      600      605
Phe Ser Leu Ala Val Phe Glu Asp Lys Val Phe Trp Thr Asp Ile Ile
      610      615      620
Asn Glu Ala Ile Phe Ser Ala Asn Arg Leu Thr Gly Ser Asp Val Asn
625      630      635      640
Leu Leu Ala Glu Asn Leu Leu Ser Pro Glu Asp Met Val Leu Phe His
      645      650      655
Asn Leu Thr Gln Pro Arg Gly Val Asn Trp Cys Glu Arg Thr Thr Leu
      660      665      670
Ser Asn Gly Gly Cys Gln Tyr Leu Cys Leu Pro Ala Pro Gln Ile Asn
      675      680      685
Pro His Ser Pro Lys Phe Thr Cys Ala Cys Pro Asp Gly Met Leu Leu
      690      695      700
Ala Arg Gly His Glu Glu Leu Pro His Arg Gly Leu Arg Leu Gln Trp
705      710      715      720
Pro Pro Arg Arg His Pro Pro Ser Gly *
      725      729

```

<210> 1256
 <211> 264
 <212> PRT
 <213> Homo sapiens

```

<400> 1256
Met Arg Gly Asn Leu Ala Leu Val Gly Val Leu Ile Ser Leu Ala Phe
  1          5          10          15
Leu Ser Leu Leu Pro Ser Gly His Pro Gln Pro Ala Gly Asp Asp Ala
      20      25      30
Cys Ser Val Gln Ile Leu Val Pro Gly Leu Lys Gly Asp Ala Gly Glu
      35      40      45
Lys Gly Asp Lys Gly Ala Pro Gly Arg Pro Gly Arg Val Gly Pro Thr
      50      55      60
Gly Glu Lys Gly Asp Met Gly Asp Lys Gly Gln Lys Gly Ser Val Gly

```

65					70					75				80
Arg	His	Gly	Lys	Ile	Gly	Pro	Ile	Gly	Ser	Lys	Gly	Glu	Lys	Gly
				85					90					95
Ser	Gly	Asp	Ile	Gly	Pro	Pro	Gly	Pro	Asn	Gly	Glu	Pro	Gly	Leu
			100					105					110	
Cys	Glu	Cys	Ser	Gln	Leu	Arg	Lys	Ala	Ile	Gly	Glu	Met	Asp	Asn
			115				120					125		
Val	Ser	Gln	Leu	Thr	Ser	Glu	Leu	Lys	Phe	Ile	Lys	Asn	Ala	Val
			130				135				140			
Gly	Val	Arg	Glu	Thr	Glu	Ser	Lys	Ile	Tyr	Leu	Leu	Val	Lys	Glu
145					150				155					160
Lys	Arg	Tyr	Ala	Asp	Ala	Gln	Leu	Ser	Cys	Gln	Gly	Arg	Gly	Gly
				165					170				175	
Leu	Ser	Met	Pro	Lys	Asp	Glu	Ala	Ala	Asn	Gly	Leu	Met	Ala	Ala
			180					185					190	
Leu	Ala	Gln	Ala	Gly	Leu	Ala	Arg	Val	Phe	Ile	Gly	Ile	Asn	Asp
			195				200					205		
Glu	Lys	Glu	Gly	Ala	Phe	Val	Tyr	Ser	Asp	His	Ser	Pro	Met	Arg
			210				215				220			
Phe	Asn	Lys	Trp	Arg	Ser	Gly	Glu	Pro	Asn	Asn	Ala	Tyr	Asp	Glu
225						230				235				240
Asp	Cys	Val	Glu	Met	Val	Ala	Ser	Gly	Gly	Trp	Asn	Asp	Val	Ala
				245					250					255
His	Thr	Thr	Met	Tyr	Phe	Met	*							
			260			263								

<210> 1257
 <211> 407
 <212> PRT
 <213> Homo sapiens

<400> 1257

Met	Ser	Gly	Ala	Pro	Thr	Ala	Gly	Ala	Ala	Leu	Met	Leu	Cys	Ala	Ala
1				5					10					15	
Thr	Ala	Val	Leu	Leu	Ser	Ala	Gln	Gly	Gly	Pro	Val	Gln	Ser	Lys	Ser
			20					25					30		
Pro	Arg	Phe	Ala	Ser	Trp	Asp	Glu	Met	Asn	Val	Leu	Ala	His	Gly	Leu
			35				40					45			
Leu	Gln	Leu	Gly	Gln	Gly	Leu	Arg	Glu	His	Ala	Glu	Arg	Thr	Arg	Ser
			50			55					60				
Gln	Leu	Ser	Ala	Leu	Glu	Arg	Arg	Leu	Ser	Ala	Cys	Gly	Ser	Ala	Cys
					70				75					80	
Gln	Gly	Thr	Glu	Gly	Ser	Thr	Asp	Leu	Pro	Leu	Ala	Pro	Glu	Ser	Arg
				85				90					95		
Val	Asp	Pro	Glu	Val	Leu	His	Ser	Leu	Gln	Thr	Gln	Leu	Lys	Ala	Gln
			100					105					110		
Asn	Ser	Arg	Ile	Gln	Gln	Leu	Phe	His	Lys	Val	Ala	Gln	Gln	Gln	Arg
			115				120					125			
His	Leu	Glu	Lys	Gln	His	Leu	Arg	Ile	Gln	His	Leu	Gln	Ser	Gln	Phe
			130			135					140				
Gly	Leu	Leu	Asp	His	Lys	His	Leu	Asp	His	Glu	Val	Ala	Lys	Pro	Ala
145					150				155					160	
Arg	Arg	Lys	Arg	Leu	Pro	Glu	Met	Ala	Gln	Pro	Val	Asp	Pro	Ala	His
				165				170					175		
Asn	Val	Ser	Arg	Leu	His	Arg	Leu	Pro	Arg	Asp	Cys	Gln	Glu	Leu	Phe
			180					185					190		

Gln Val Gly Glu Arg Gln Ser Gly Leu Phe Glu Ile Gln Pro Gln Gly
 195 200 205
 Ser Pro Pro Phe Leu Val Asn Cys Lys Met Thr Ser Asp Gly Gly Trp
 210 215 220
 Thr Val Ile Gln Arg Arg His Asp Gly Ser Val Asp Phe Asn Arg Pro
 225 230 235 240
 Trp Glu Ala Tyr Lys Ala Gly Phe Gly Asp Pro His Gly Glu Phe Trp
 245 250 255
 Leu Gly Leu Glu Lys Val His Ser Ile Thr Gly Asp Arg Asn Ser Arg
 260 265 270
 Leu Ala Val Gln Leu Arg Asp Trp Asp Gly Asn Ala Glu Leu Leu Gln
 275 280 285
 Phe Ser Val His Leu Gly Gly Glu Asp Thr Ala Tyr Ser Leu Gln Leu
 290 295 300
 Thr Ala Pro Val Ala Gly Gln Leu Gly Ala Thr Thr Val Pro Pro Ser
 305 310 315 320
 Gly Leu Ser Val Pro Phe Ser Thr Trp Asp Gln Asp His Asp Leu Arg
 325 330 335
 Arg Asp Lys Asn Cys Ala Lys Ser Leu Ser Gly Gly Trp Trp Phe Gly
 340 345 350
 Thr Cys Ser His Ser Asn Leu Asn Gly Gln Tyr Phe Arg Ser Ile Pro
 355 360 365
 Gln Gln Arg Gln Lys Leu Lys Lys Gly Ile Phe Trp Lys Thr Trp Arg
 370 375 380
 Gly Arg Tyr Tyr Pro Leu Gln Ala Thr Thr Met Leu Ile Gln Pro Met
 385 390 395 400
 Ala Ala Glu Ala Ala Ser *
 405 406

<210> 1258
 <211> 120
 <212> PRT
 <213> Homo sapiens

<400> 1258
 Met Met Thr Pro Lys Leu Met Ile Trp Leu Leu Leu Gln Ala Lys Ser
 1 5 10 15
 Ser Ile Ser Met Leu Glu Lys Ser Ser Lys Cys Leu Gly Arg Cys Phe
 20 25 30
 Ser Ser Phe Ala Lys Asn Leu Val Met Ile Gln Ser Cys Val Ser Trp
 35 40 45
 Ala Leu Met Ser Glu Asn Phe Tyr Arg Thr Leu Met Leu Cys Thr Thr
 50 55 60
 Thr Leu Leu Pro Ser Thr Gln Glu Cys Val His Leu Pro Leu Gly Ala
 65 70 75 80
 Leu Met Gln Lys Arg Ala Lys Asp Ser Phe Cys Thr Thr Thr Gln Arg
 85 90 95
 Glu Lys Asp Phe Arg Ile Leu Ser Leu Glu Ser Ser Lys Gln Trp His
 100 105 110
 Asn Lys Ser Met Ala Leu Lys *
 115 119

<210> 1259
 <211> 160

<212> PRT

<213> Homo sapiens

<400> 1259

```

Met Val Cys Leu Arg Leu Pro Gly Gly Ser Cys Met Ala Val Leu Thr
 1          5          10          15
Val Thr Leu Met Val Leu Ser Ser Pro Leu Ala Leu Ala Gly Asp Thr
          20          25          30
Arg Pro Arg Phe Leu Glu Tyr Ser Thr Gly Glu Cys Tyr Phe Phe Asn
          35          40          45
Gly Thr Glu Arg Val Arg Phe Leu Asp Arg Tyr Phe Tyr Asn Gln Glu
          50          55          60
Glu Tyr Val Arg Phe Asp Ser Asp Val Gly Glu Tyr Arg Ala Val Thr
          65          70          75          80
Glu Leu Gly Arg Pro Asp Ala Glu Tyr Leu Glu Gln Pro Glu Gly Arg
          85          90          95
Pro Trp Asn Ser Gln Lys Asp Ile Leu Glu Asp Glu Arg Ala Ala Val
          100          105          110
Asp Thr Tyr Cys Arg His Asn Tyr Gly Val Val Glu Ser Phe Thr Val
          115          120          125
Gln Arg Arg Val His Pro Lys Val Thr Val Tyr Pro Ser Lys Thr Gln
          130          135          140
Pro Leu Gln Ala Pro Gln Pro Ala Val Leu Phe Cys Glu Trp Phe *
145          150          155          159

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<210> 1260

<211> 111

<212> PRT

<213> Homo sapiens

<400> 1260

```

Met Leu Thr Phe Leu Met Leu Val Arg Leu Ser Thr Leu Cys Pro Ser
 1          5          10          15
Ala Val Leu Gln Arg Leu Asp Arg Leu Val Glu Pro Leu Arg Ala Thr
          20          25          30
Cys Thr Thr Lys Val Lys Ala Asn Ser Val Lys Gln Glu Phe Glu Lys
          35          40          45
Gln Asp Glu Leu Lys Arg Ser Ala Met Arg Ala Val Ala Ala Leu Leu
          50          55          60
Thr Ile Pro Glu Ala Glu Lys Ser Pro Leu Met Ser Glu Phe Gln Ser
          65          70          75          80
Gln Ile Ser Ser Asn Pro Glu Leu Ala Ala Ile Phe Glu Ser Ile Gln
          85          90          95
Lys Asp Ser Ser Ser Thr Asn Leu Glu Ser Met Asp Thr Ser *
          100          105          110

```

<210> 1261

<211> 123

<212> PRT

<213> Homo sapiens

<400> 1261


```

Met Ile Pro Ala Arg Phe Ala Gly Val Leu Leu Ala Leu Ala Leu Ile
 1           5           10           15
Leu Pro Gly Thr Leu Cys Ala Glu Gly Thr Arg Gly Arg Ser Ser Thr
           20           25           30
Ala Arg Cys Ser Leu Phe Gly Ser Asp Phe Val Asn Thr Phe Asp Gly
           35           40           45
Ser Met Tyr Ser Phe Ala Gly Tyr Cys Ser Tyr Leu Leu Ala Gly Gly
           50           55           60
Cys Gln Lys Arg Ser Phe Ser Ile Ile Gly Asp Phe Gln Asn Gly Lys
           65           70           75           80
Arg Val Ser Leu Ser Val Tyr Leu Gly Glu Phe Phe Asp Ile His Leu
           85           90           95
Phe Val Asn Gly Thr Val Thr Gln Gly Asp Gln Arg Val Ser Met Pro
           100           105           110
Tyr Ala Ser Lys Gly Leu Tyr Leu Glu Thr *
           115           120           122

```

<210> 1262

<211> 737

<212> PRT

<213> Homo sapiens

<400> 1262

```

Met Phe Pro Ala Gly Pro Pro Trp Pro Arg Val Arg Val Val Gln Val
 1           5           10           15
Leu Trp Ala Leu Leu Ala Val Leu Leu Ala Ser Trp Arg Leu Trp Ala
           20           25           30
Ile Lys Asp Phe Gln Glu Cys Thr Trp Gln Val Val Leu Asn Glu Phe
           35           40           45
Lys Arg Val Gly Glu Ser Gly Val Ser Asp Ser Phe Phe Glu Gln Glu
           50           55           60
Pro Val Asp Thr Val Ser Ser Leu Phe His Met Leu Val Asp Ser Pro
           65           70           75           80
Ile Asp Pro Ser Glu Lys Tyr Leu Gly Phe Pro Tyr Tyr Leu Lys Ile
           85           90           95
Asn Tyr Ser Cys Glu Glu Lys Pro Ser Glu Asp Leu Val Arg Met Gly
           100           105           110
His Leu Thr Gly Leu Lys Pro Leu Val Leu Val Thr Phe Gln Ser Pro
           115           120           125
Val Asn Phe Tyr Arg Trp Lys Ile Glu Gln Leu Gln Ile Gln Met Glu
           130           135           140
Ala Ala Pro Phe Arg Ser Lys Gly Gly Pro Gly Gly Gly Arg Asp
           145           150           155           160
Arg Asn Leu Ala Gly Met Asn Ile Asn Gly Phe Leu Lys Arg Asp Arg
           165           170           175
Asp Asn Asn Ile Gln Phe Thr Val Gly Glu Glu Leu Phe Asn Leu Met
           180           185           190
Pro Gln Tyr Phe Val Gly Val Ser Ser Arg Pro Leu Trp His Thr Val
           195           200           205
Asp Gln Ser Pro Val Leu Ile Leu Gly Gly Ile Pro Asn Glu Lys Tyr
           210           215           220
Val Leu Met Thr Asp Thr Ser Phe Lys Asp Phe Ser Leu Val Glu Val
           225           230           235           240
Asn Gly Val Gly Gln Met Leu Ser Ile Asp Ser Cys Trp Val Gly Ser
           245           250           255
Phe Tyr Cys Pro His Ser Gly Phe Thr Ala Thr Ile Tyr Asp Thr Ile

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[illegible]

*

<210> 1263
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1263
 Met Gly Ala Gly Cys Thr Pro Val Val Leu Gly Ala Ala Leu Trp Leu
 1 5 10 15
 Trp Arg Trp Phe Ser Arg Trp Gly Leu Gly Gly Leu Cys Trp Arg Pro
 20 25 30
 Cys Thr Cys Thr Pro Cys His Ser Ala Ser Pro Gly Ala Gly Arg *
 35 40 45 47

<210> 1264
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1264
 Met Met Tyr Ile Leu Phe Leu Gln Ala Phe Ile Leu Asp Tyr Tyr Gln
 1 5 10 15
 Tyr Phe Leu Gly Leu Asn Cys Val Tyr Ser Tyr Gln Ser Lys Lys Asp
 20 25 30
 Phe Ser Gln Ile Trp Ser Gln Gly Trp Phe Ala Leu Leu Trp Ile Leu
 35 40 45
 Cys Leu Ser Arg Ile Leu Glu Ser Phe Phe Phe Leu *
 50 55 60

<210> 1265
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1265
 Met Val Gly Phe Leu Cys Cys Phe Tyr Leu Phe Gln Leu Leu Gly Pro
 1 5 10 15
 Gly Leu Leu Cys Leu Pro Lys Ala Val Leu Ser Phe Leu Gly Leu Leu
 20 25 30
 Glu Ala Ala His His Leu Leu Val Lys Gly Phe Leu Leu Pro Val Leu
 35 40 45
 Asp Leu Pro Gln Val Ile Val His Gln *
 50 55 57

<210> 1266
 <211> 148

<212> PRT

<213> Homo sapiens

<400> 1266

```

Met Ala Leu Gln Leu Trp Ala Leu Thr Leu Leu Gly Leu Leu Gly Ala
 1              5              10              15
Gly Ala Ser Leu Arg Pro Arg Lys Leu Asp Phe Phe Arg Ser Glu Lys
              20              25              30
Glu Leu Asn His Leu Ala Val Asp Glu Ala Ser Gly Val Val Tyr Leu
              35              40              45
Gly Ala Val Asn Ala Leu Tyr Gln Leu Asp Ala Lys Leu Gln Leu Glu
              50              55              60
Gln Gln Val Ala Thr Gly Pro Val Leu Asp Asn Lys Lys Cys Thr Pro
              65              70              75              80
Pro Ile Glu Ala Ser Gln Cys His Glu Ala Glu Met Thr Asp Asn Val
              85              90              95
Asn Gln Leu Leu Leu Val Asp Pro Pro Arg Lys Arg Leu Val Glu Cys
              100             105             110
Gly Gln Leu Leu Lys Gly Ile Leu Arg Ser Ala Arg Pro Glu Gln His
              115             120             125
Leu Pro Pro Pro Val Leu Arg Gly Arg Gln Arg Gly Glu Val Phe Arg
              130             135             140
Gly Gln Gln *
145             147

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<210> 1267

<211> 227

<212> PRT

<213> Homo sapiens

<400> 1267

```

Met Arg Trp Leu Trp Pro Leu Ala Val Ser Leu Ala Val Ile Leu Ala
 1              5              10              15
Val Gly Leu Ser Arg Val Ser Gly Gly Ala Pro Leu His Leu Gly Arg
              20              25              30
His Arg Ala Glu Thr Gln Glu Gln Gln Ser Arg Ser Lys Arg Gly Thr
              35              40              45
Glu Asp Glu Glu Ala Lys Gly Val Gln Gln Tyr Val Pro Glu Glu Trp
              50              55              60
Ala Glu Tyr Pro Arg Pro Ile His Pro Ala Gly Leu Gln Pro Thr Lys
              65              70              75              80
Pro Leu Val Ala Thr Ser Pro Asn Pro Asp Lys Asp Gly Gly Thr Pro
              85              90              95
Asp Ser Gly Gln Glu Leu Arg Gly Asn Leu Thr Gly Ala Pro Gly Gln
              100             105             110
Arg Leu Gln Ile Gln Asn Pro Leu Tyr Pro Val Thr Glu Ser Ser Tyr
              115             120             125
Ser Ala Tyr Ala Ile Met Leu Leu Ala Leu Val Glu Phe Ala Ala Gly
              130             135             140
Ile Val Gly Asn Leu Ser Val Met Cys Ile Ala Trp His Ser Tyr Tyr
145             150             155             160
Leu Lys Ser Ala Trp Asn Ser Ile Leu Ala Ser Leu Ala Leu Trp Asp
              165             170             175
Phe Leu Val Leu Phe Phe Cys Leu Pro Ile Val Ile Leu Asn Glu Ile
              180             185             190

```

Thr Lys Gln Arg Leu Leu Gly Asp Ala Pro Cys Pro Cys Arg Ala Leu
 195 200 205
 His Gly Gly Leu Leu Ser Gly Ser His Asp Phe Gln Pro Leu Cys Pro
 210 215 220
 Gly His *
 225 226

<210> 1268
 <211> 983
 <212> PRT
 <213> Homo sapiens

<400> 1268
 Met Leu Gly Asn Val Leu Leu Leu Cys Phe Phe Val Phe Phe Ile Phe
 1 5 10 15
 Gly Ile Val Gly Val Gln Leu Trp Ala Gly Leu Leu Arg Asn Arg Cys
 20 25 30
 Phe Leu Pro Glu Asn Phe Ser Leu Pro Leu Ser Val Asp Leu Glu Arg
 35 40 45
 Tyr Tyr Gln Thr Glu Asn Glu Asp Glu Ser Pro Phe Ile Cys Ser Gln
 50 55 60
 Pro Arg Glu Asn Gly Met Arg Ser Cys Arg Ser Val Pro Thr Leu Arg
 65 70 75 80
 Gly Asp Gly Gly Gly Gly Pro Pro Cys Gly Leu Asp Tyr Glu Ala Tyr
 85 90 95
 Asn Ser Ser Ser Asn Thr Thr Cys Val Asn Trp Asn Gln Tyr Tyr Thr
 100 105 110
 Asn Cys Ser Ala Gly Glu His Asn Pro Phe Lys Gly Ala Ile Asn Phe
 115 120 125
 Asp Asn Ile Gly Tyr Ala Trp Ile Ala Ile Phe Gln Val Ile Thr Leu
 130 135 140
 Glu Gly Trp Val Asp Ile Met Tyr Phe Val Met Asp Ala His Ser Phe
 145 150 155 160
 Tyr Asn Phe Ile Tyr Phe Ile Leu Leu Ile Ile Val Gly Ser Phe Phe
 165 170 175
 Met Ile Asn Leu Cys Leu Val Val Ile Ala Thr Gln Phe Ser Glu Thr
 180 185 190
 Lys Gln Arg Glu Ser Gln Leu Met Arg Glu Gln Arg Val Arg Phe Leu
 195 200 205
 Ser Asn Ala Ser Thr Leu Ala Ser Phe Ser Glu Pro Gly Ser Cys Tyr
 210 215 220
 Glu Glu Leu Leu Lys Tyr Leu Val Tyr Ile Leu Arg Lys Ala Ala Arg
 225 230 235 240
 Arg Leu Ala Gln Val Ser Arg Ala Ala Gly Val Arg Val Gly Leu Leu
 245 250 255
 Ser Ser Pro Ala Pro Leu Gly Gly Gln Glu Thr Gln Pro Ser Ser Ser
 260 265 270
 Cys Ser Arg Ser His Arg Arg Leu Ser Val His His Leu Val His His
 275 280 285
 His His His His His His Tyr His Leu Gly Asn Gly Thr Leu Arg
 290 295 300
 Ala Pro Arg Ala Ser Pro Glu Ile Gln Asp Arg Asp Ala Asn Gly Ser
 305 310 315 320
 Arg Arg Leu Met Leu Pro Pro Pro Ser Thr Pro Ala Leu Ser Gly Ala
 325 330 335
 Pro Pro Gly Gly Ala Glu Ser Val His Ser Phe Tyr His Ala Asp Cys

340 345 350
 His Leu Glu Pro Val Arg Cys Gln Ala Pro Pro Pro Arg Ser Pro Ser
 355 360 365
 Glu Ala Ser Gly Arg Thr Val Gly Ser Gly Lys Val Tyr Pro Thr Val
 370 375 380
 His Thr Ser Pro Pro Pro Glu Thr Leu Lys Glu Lys Ala Leu Val Glu
 385 390 395 400
 Val Ala Ala Ser Ser Gly Pro Pro Thr Leu Thr Ser Leu Asn Ile Pro
 405 410 415
 Pro Gly Pro Tyr Ser Ser Met His Lys Leu Leu Glu Thr Gln Ser Thr
 420 425 430
 Gly Ala Cys Gln Ser Ser Cys Lys Ile Ser Ser Pro Cys Leu Lys Ala
 435 440 445
 Asp Ser Gly Ala Cys Gly Pro Asp Ser Cys Pro Tyr Cys Ala Arg Ala
 450 455 460
 Gly Ala Gly Glu Val Glu Leu Ala Asp Arg Glu Met Pro Asp Ser Asp
 465 470 475 480
 Ser Glu Ala Val Tyr Glu Phe Thr Gln Asp Ala Gln His Ser Asp Leu
 485 490 495
 Arg Asp Pro His Ser Arg Arg Gln Arg Ser Leu Gly Pro Asp Ala Glu
 500 505 510
 Pro Ser Ser Val Leu Ala Phe Trp Arg Leu Ile Cys Asp Thr Phe Arg
 515 520 525
 Lys Ile Val Asp Ser Lys Tyr Phe Gly Arg Gly Ile Met Ile Ala Ile
 530 535 540
 Leu Val Asn Thr Leu Ser Met Gly Ile Glu Tyr His Glu Gln Pro Glu
 545 550 555 560
 Glu Leu Thr Asn Ala Leu Glu Ile Ser Asn Ile Val Phe Thr Ser Leu
 565 570 575
 Phe Ala Leu Glu Met Leu Leu Lys Leu Leu Val Tyr Gly Pro Phe Gly
 580 585 590
 Tyr Ile Lys Asn Pro Tyr Asn Ile Phe Asp Gly Val Ile Val Val Ile
 595 600 605
 Ser Val Trp Glu Ile Val Gly Gln Gln Gly Gly Gly Leu Ser Val Leu
 610 615 620
 Arg Thr Phe Arg Leu Met Arg Val Leu Lys Leu Val Arg Phe Leu Pro
 625 630 635 640
 Ala Leu Gln Arg Gln Leu Val Val Leu Met Lys Thr Met Asp Asn Val
 645 650 655
 Ala Thr Phe Cys Met Leu Leu Met Leu Phe Ile Phe Ile Ser Ile
 660 665 670
 Leu Gly Met His Leu Phe Gly Cys Lys Phe Ala Ser Glu Arg Asp Gly
 675 680 685
 Asp Thr Leu Pro Asp Arg Lys Asn Phe Asp Ser Leu Leu Trp Ala Ile
 690 695 700
 Val Thr Val Phe Gln Ile Leu Thr Gln Glu Asp Trp Asn Lys Val Leu
 705 710 715 720
 Tyr Asn Gly Met Ala Ser Thr Ser Ser Trp Ala Ala Leu Tyr Phe Ile
 725 730 735
 Ala Leu Met Thr Phe Gly Asn Tyr Val Leu Phe Asn Leu Leu Val Ala
 740 745 750
 Ile Leu Val Glu Gly Phe Gln Ala Glu Gly Asp Ala Asn Lys Ser Glu
 755 760 765
 Ser Glu Pro Asp Phe Phe Ser Pro Ser Leu Asp Gly Asp Gly Asp Arg
 770 775 780
 Lys Lys Cys Leu Ala Leu Val Ser Leu Gly Glu His Pro Glu Leu Arg
 785 790 795 800
 Lys Ser Leu Leu Pro Pro Leu Ile Ile His Thr Ala Ala Thr Pro Met
 805 810 815

Ser Leu Pro Lys Ser Thr Ser Thr Gly Leu Gly Glu Ala Leu Gly Pro
820 825 830
Ala Ser Arg Arg Thr Ser Ser Ser Gly Ser Ala Glu Pro Gly Ala Ala
835 840 845
His Glu Met Lys Ser Pro Pro Ser Ala Arg Ser Ser Pro His Ser Pro
850 855 860
Trp Ser Ala Ala Ser Ser Trp Thr Ser Arg Arg Ser Ser Arg Asn Ser
865 870 875 880
Leu Gly Arg Ala Pro Ser Leu Lys Arg Arg Ser Pro Ser Gly Glu Arg
885 890 895
Arg Ser Leu Leu Ser Gly Glu Gly Gln Glu Ser Gln Asp Glu Glu Glu
900 905 910
Ser Ser Glu Glu Glu Arg Ala Ser Pro Ala Gly Ser Asp His Arg His
915 920 925
Arg Gly Ser Leu Glu Arg Glu Ala Lys Ser Ser Phe Asp Leu Pro Asp
930 935 940
Thr Leu Gln Val Pro Gly Leu His Arg Thr Ala Ser Gly Arg Gly Ser
945 950 955 960
Ala Ser Glu His Gln Gly Leu Gln Trp Gln Val Gly Phe Arg Ala Pro
965 970 975
Gly Pro Gly Pro Ala Ala *
980 982

<210> 1269

<211> 708

<212> PRT

<213> Homo sapiens

<400> 1269

Met Leu Ser Leu Arg Arg Cys Thr Ser Met Arg Leu Cys Leu Ser Ser
1 5 10 15
Ser Leu Ala Ser Pro Cys Ser Thr Met Leu Ser Thr Val Val Leu Tyr
20 25 30
Lys Val Cys Asn Ser Phe Val Glu Met Gly Ser Ala Asn Val Gln Ala
35 40 45
Thr Asp Tyr Leu Lys Gly Val Ala Ser Leu Phe Val Val Ser Leu Gly
50 55 60
Gly Ala Ala Val Gly Leu Val Phe Ala Phe Leu Leu Ala Leu Thr Thr
65 70 75 80
Arg Phe Thr Lys Arg Val Arg Ile Ile Glu Pro Leu Leu Val Phe Leu
85 90 95
Leu Ala Tyr Ala Ala Tyr Leu Thr Ala Glu Met Ala Ser Leu Ser Ala
100 105 110
Ile Leu Ala Val Thr Met Cys Gly Leu Gly Cys Lys Lys Tyr Val Glu
115 120 125
Ala Asn Ile Ser His Lys Ser Arg Thr Thr Val Lys Tyr Thr Met Lys
130 135 140
Thr Leu Ala Ser Cys Ala Glu Thr Val Ile Phe Met Leu Leu Gly Ile
145 150 155 160
Ser Thr Val Asp Ser Ser Lys Trp Ala Trp Asp Ser Gly Leu Val Leu
165 170 175
Gly Thr Leu Ile Phe Ile Leu Phe Phe Arg Ala Leu Gly Val Val Leu
180 185 190
Gln Thr Trp Val Leu Asn Gln Phe Arg Leu Val Pro Leu Asp Lys Ile
195 200 205
Asp Gln Val Val Met Ser Tyr Gly Gly Leu Arg Gly Ala Val Ala Phe

210	215	220
Ala Leu Val Ile Leu	Leu Asp Arg Thr Lys	Val Pro Ala Lys Asp Tyr
225	230	235
Phe Val Ala Thr Thr	Ile Val Val Val Phe	Phe Thr Val Ile Val Gln
245	250	255
Gly Leu Thr Ile Lys	Pro Leu Val Lys Trp	Leu Lys Val Lys Arg Ser
260	265	270
Glu His His Lys Pro	Thr Leu Asn Gln Glu	Leu His Glu His Thr Phe
275	280	285
Asp His Ile Leu Ala	Ala Val Glu Asp Val	Val Gly His His Gly Tyr
290	295	300
His Tyr Trp Arg Asp	Arg Trp Glu Gln Phe	Asp Lys Lys Tyr Leu Ser
305	310	315
Gln Leu Leu Met Arg	Arg Ser Ala Tyr Arg	Ile Arg Asp Gln Ile Trp
325	330	335
Asp Val Tyr Tyr Arg	Leu Asn Ile Arg Asp	Ala Ile Ser Phe Val Asp
340	345	350
Gln Gly Gly His Val	Leu Ser Ser Thr Gly	Leu Thr Leu Pro Ser Met
355	360	365
Pro Ser Arg Asn Ser	Val Ala Glu Thr Ser	Val Thr Asn Leu Leu Arg
370	375	380
Glu Ser Gly Ser Gly	Ala Cys Leu Asp Leu	Gln Val Ile Asp Thr Val
385	390	395
Arg Ser Gly Arg Asp	Arg Glu Asp Ala Val	Met His His Leu Leu Cys
405	410	415
Gly Gly Leu Tyr Lys	Pro Arg Arg Arg Tyr	Lys Ala Ser Cys Ser Arg
420	425	430
His Phe Ile Ser Glu	Asp Ala Gln Glu Arg	Gln Asp Lys Glu Val Phe
435	440	445
Gln Gln Asn Met Lys	Arg Arg Leu Glu Ser	Phe Lys Ser Thr Lys His
450	455	460
Asn Ile Cys Phe Thr	Lys Ser Lys Pro Arg	Pro Arg Lys Thr Gly Arg
465	470	475
Arg Lys Lys Asp Gly	Val Ala Asn Ala Glu	Ala Thr Asn Gly Lys His
485	490	495
Arg Gly Leu Gly Phe	Gln Asp Thr Ala Ala	Val Ile Leu Thr Val Glu
500	505	510
Ser Glu Glu Glu Glu	Glu Glu Ser Asp Ser	Ser Glu Thr Glu Lys Glu
515	520	525
Asp Asp Glu Gly Ile	Ile Phe Val Ala Arg	Ala Thr Ser Glu Val Leu
530	535	540
Gln Glu Gly Lys Val	Ser Gly Ser Leu Glu	Val Cys Pro Ser Pro Arg
545	550	555
Ile Ile Pro Pro Ser	Pro Thr Cys Ala Glu	Lys Glu Leu Pro Trp Lys
565	570	575
Ser Gly Gln Gly Asp	Leu Ala Val Tyr Val	Ser Ser Glu Thr Thr Lys
580	585	590
Ile Val Pro Val Asp	Met Gln Thr Gly Trp	Asn Gln Ser Ile Ser Ser
595	600	605
Leu Glu Ser Leu Ala	Ser Pro Pro Cys Asn	Gln Ala Pro Ile Leu Thr
610	615	620
Cys Leu Pro Pro His	Pro Arg Gly Thr Glu	Glu Pro Gln Val Pro Leu
625	630	635
His Leu Pro Ser Asp	Pro Arg Ser Ser Phe	Ala Phe Pro Pro Ser Leu
645	650	655
Ala Lys Ala Gly Arg	Ser Arg Ser Glu Ser	Ser Ala Asp Leu Pro Gln
660	665	670
Gln Gln Glu Leu Gln	Pro Leu Met Gly His	Lys Asp His Thr His Leu
675	680	685

Ser Pro Gly Thr Ala Thr Ser His Trp Cys Ile Gln Phe Asn Arg Gly
 690 695 700
 Ser Arg Leu *
 705 707

<210> 1270
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 1270
 Met Leu Gln Ala Ala Leu Trp Cys Gly Ile Gly Leu Tyr Leu Val Thr
 1 5 10 15
 Leu Arg Leu Gly Val Glu Val Thr Pro Glu Ser Gln His Phe Gly Arg
 20 25 30
 Pro Arg Arg Ala Asp His Leu Arg Pro Gly Gly Arg Gly Gln Ser Gly
 35 40 45
 Gln His Gly Glu Thr Pro Ser Leu Leu Glu Ile Gln Lys Ile Ser Trp
 50 55 60
 Met Trp Trp His Ile Pro Val Ile Pro Ala Thr Trp Glu Ala Glu Ala
 65 70 75 80
 Gly Glu Ser Leu Glu Arg Gly Arg Trp Arg Leu Gln *
 85 90 92

<210> 1271
 <211> 648
 <212> PRT
 <213> Homo sapiens

<400> 1271
 Met Leu Trp Val Thr Gly Pro Val Leu Ala Val Ile Leu Ile Ile Leu
 1 5 10 15
 Ile Val Ile Ala Ile Leu Leu Phe Lys Arg Lys Arg Thr His Ser Pro
 20 25 30
 Ser Ser Lys Asp Glu Gln Ser Ile Gly Leu Lys Asp Ser Leu Leu Ala
 35 40 45
 His Ser Ser Asp Pro Val Glu Met Arg Arg Leu Asn Tyr Gln Thr Pro
 50 55 60
 Gly Met Arg Asp His Pro Pro Ile Pro Ile Thr Asp Leu Ala Asp Asn
 65 70 75 80
 Ile Glu Arg Leu Lys Ala Asn Asp Gly Leu Lys Phe Ser Gln Glu Tyr
 85 90 95
 Glu Ser Ile Asp Pro Gly Gln Gln Phe Thr Trp Glu Asn Ser Asn Leu
 100 105 110
 Glu Val Asn Lys Pro Lys Asn Arg Tyr Ala Asn Val Ile Ala Tyr Asp
 115 120 125
 His Ser Arg Val Ile Leu Thr Ser Ile Asp Gly Val Pro Gly Ser Asp
 130 135 140
 Tyr Ile Asn Ala Asn Tyr Ile Asp Gly Tyr Arg Lys Gln Asn Ala Tyr
 145 150 155 160
 Ile Ala Thr Gln Gly Pro Leu Pro Glu Thr Met Gly Asp Phe Trp Arg
 165 170 175
 Met Val Trp Glu Gln Arg Thr Ala Thr Val Val Met Met Thr Arg Leu

731

<210> 1272
 <211> 109
 <212> PRT
 <213> Homo sapiens

<400> 1272
 Met Lys Ala Leu Cys Leu Leu Leu Leu Pro Val Leu Gly Leu Leu Val
 1 5 10 15
 Ser Ser Lys Thr Leu Cys Ser Met Glu Glu Ala Ile Asn Glu Arg Ile
 20 25 30
 Gln Glu Val Ala Gly Ser Leu Ile Phe Arg Ala Ile Ser Ser Ile Gly
 35 40 45
 Leu Glu Cys Gln Ser Val Thr Ser Arg Gly Asp Leu Ala Thr Cys Pro
 50 55 60
 Arg Gly Phe Ala Val Thr Gly Cys Thr Cys Gly Ser Ala Cys Gly Ser
 65 70 75 80
 Trp Asp Val Arg Ala Glu Thr Thr Cys His Cys Gln Cys Ala Gly Met
 85 90 95
 Asp Trp Thr Gly Ala Arg Cys Cys Arg Val Gln Pro *

<210> 1273
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1273
 Met Phe Phe Val Pro Ile Leu Leu Cys Leu Leu Leu Leu Ile Tyr Asn
 1 5 10 15
 Ile Ile Cys Phe Asn Met Glu His Pro Thr Gly Ala Gly Leu Arg Cys
 20 25 30
 Ser Leu Leu Ala Ala Pro Lys Glu Arg Gln His Arg His His Phe Val
 35 40 45
 Phe His Ile Asp Thr Asn His *

<210> 1274
 <211> 188
 <212> PRT
 <213> Homo sapiens

<400> 1274
 Met Asp Leu Ser Leu Leu Trp Val Leu Leu Pro Leu Val Thr Met Ala
 1 5 10 15
 Trp Gly Gln Tyr Gly Asp Tyr Gly Tyr Pro Tyr Gln Gln Tyr His Asp
 20 25 30
 Tyr Ser Asp Asp Gly Trp Val Asn Leu Asn Arg Gln Gly Phe Ser Tyr
 35 40 45
 Gln Cys Pro Gln Gly Gln Val Ile Val Ala Val Arg Ser Ile Phe Ser

50			55			60									
Lys	Lys	Glu	Gly	Ser	Asp	Arg	Gln	Trp	Asn	Tyr	Ala	Cys	Met	Pro	Thr
65					70					75					80
Pro	Gln	Ser	Leu	Gly	Glu	Pro	Thr	Glu	Cys	Trp	Trp	Glu	Glu	Ile	Asn
				85					90					95	
Arg	Ala	Gly	Met	Glu	Trp	Tyr	Gln	Thr	Cys	Ser	Asn	Asn	Gly	Leu	Val
			100					105					110		
Ala	Gly	Phe	Gln	Ser	Arg	Tyr	Phe	Glu	Ser	Val	Leu	Asp	Arg	Glu	Trp
		115					120					125			
Gln	Phe	Tyr	Cys	Cys	Arg	Tyr	Ser	Lys	Arg	Cys	Pro	Tyr	Ser	Cys	Trp
		130				135					140				
Leu	Thr	Thr	Glu	Tyr	Pro	Gly	His	Tyr	Gly	Glu	Glu	Met	Asp	Met	Ile
145					150					155				160	
Ser	Tyr	Asn	Tyr	Asp	Tyr	Tyr	Ile	Arg	Gly	Ala	Thr	Thr	His	Phe	Leu
				165					170					175	
Cys	Ser	Gly	Lys	Gly	Ser	Pro	Ser	Gly	Ser	Ser	*				
			180					185		187					

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<210> 1275
<211> 81
<212> PRT
<213> Homo sapiens
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[illegible]

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<210> 1276
<211> 46
<212> PRT
<213> Homo sapiens
```

<400> 1276															
Met	Leu	Asp	Leu	Val	Ala	Leu	Leu	Tyr	Gln	Ala	Val	Leu	Leu	Pro	Ala
1				5					10					15	
Ile	Leu	Leu	Leu	Pro	Leu	Cys	Gln	Leu	Glu	Met	Phe	Leu	Met	Leu	Gln
			20					25					30		
Leu	Asn	Arg	Gln	Ser	Leu	Lys	Lys	Tyr	Leu	Ile	Leu		*		
		35				40					45				

<210> 1277

<211> 431
 <212> PRT
 <213> Homo sapiens

<400> 1277
 Met Ala Leu Leu Val Pro Leu Ala Leu Leu Val Ile Gln Ala His Leu
 1 5 10 15
 Val Leu Ser Val Gln Leu Glu Arg Val Val Thr Glu Glu Lys Val Ala
 20 25 30
 Leu Leu Ala Leu Leu Val Leu Pro Val Leu Leu Val Pro Glu Val Leu
 35 40 45
 Leu Val Leu Lys Ala His Val Val Thr Lys Val Lys Gln Val Asn Val
 50 55 60
 Glu Leu Leu Ala Ser Lys Asp Ile Glu Asp Ser Leu Val Ile Gln Val
 65 70 75 80
 Pro Gln Val Leu Gln Ala Leu Leu Val Ser Arg Val Gln Ser Ala Val
 85 90 95
 Gln Asp Leu Gln Ala Pro Glu Asp Leu Leu Asp Pro Val Asp Leu Leu
 100 105 110
 Ala Lys Met Glu Pro Val Asp Ile Gln Val Pro Leu Asp His Gln Gly
 115 120 125
 Leu Glu Val Thr Glu Val Lys Glu Asp Leu Arg Ala Pro Gln Ala Thr
 130 135 140
 Gln Gly Asn Gln Ala Leu Leu Asp Leu Leu Val Pro Leu Val Leu Ala
 145 150 155 160
 Val Val Val Leu Glu Pro Leu Pro Leu Leu Gly Leu Glu Val Lys Lys
 165 170 175
 Leu Ala Gly Phe Ala Pro Tyr Tyr Gly Asp Glu Pro Met Asp Phe Lys
 180 185 190
 Ile Asn Thr Asp Glu Ile Met Thr Ser Leu Lys Ser Val Asn Gly Gln
 195 200 205
 Ile Glu Ser Leu Ile Ser Pro Asp Gly Ser Arg Lys Asn Pro Ala Arg
 210 215 220
 Asn Cys Arg Asp Leu Lys Phe Cys His Pro Glu Leu Lys Ser Gly Glu
 225 230 235 240
 Tyr Trp Val Asp Pro Asn Gln Gly Cys Lys Leu Asp Ala Ile Lys Val
 245 250 255
 Phe Cys Asn Met Glu Thr Gly Glu Thr Cys Ile Ser Ala Asn Pro Leu
 260 265 270
 Asn Val Pro Arg Lys His Trp Trp Thr Asp Ser Ser Ala Glu Lys Lys
 275 280 285
 His Val Trp Phe Gly Glu Ser Met Asp Gly Gly Phe Gln Phe Ser Tyr
 290 295 300
 Gly Asn Pro Glu Leu Pro Glu Asp Val Leu Asp Val Gln Leu Ala Phe
 305 310 315 320
 Leu Arg Leu Leu Ser Ser Arg Ala Ser Gln Asn Ile Thr Tyr His Cys
 325 330 335
 Lys Asn Ser Ile Ala Tyr Met Asp Gln Ala Ser Gly Asn Val Lys Lys
 340 345 350
 Ala Leu Lys Leu Met Gly Ser Asn Glu Gly Glu Phe Lys Ala Glu Gly
 355 360 365
 Asn Ser Lys Phe Thr Tyr Thr Val Leu Glu Asp Gly Cys Thr Lys His
 370 375 380
 Thr Gly Glu Trp Ser Lys Thr Val Phe Glu Tyr Arg Thr Arg Lys Ala
 385 390 395 400
 Val Arg Leu Pro Ile Val Asp Ile Ala Pro Tyr Asp Ile Gly Gly Pro
 405 410 415
 Asp Gln Glu Phe Gly Val Asp Val Gly Pro Val Cys Phe Leu *

420

425

430

<210> 1278
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1278
 Met Leu Leu Tyr Val Phe Lys Phe Leu Gly Leu Phe Gln Phe Phe His
 1 5 10 15
 Ser Phe Cys Thr Ala Tyr Gly Pro Pro Gly Gly Cys Gly Asp Ser Gly
 20 25 30
 Glu Glu Thr Ser Leu Phe Phe Glu Gln Leu Asp Pro Ala Phe Trp Leu
 35 40 45
 Ala Asn Cys Ser *
 50 52

<210> 1279
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 1279
 Met Leu Gly Ser Ile Cys Asn Val Met Leu Leu Met Leu Ala Ala Ser
 1 5 10 15
 Ile Pro Glu Ile Cys Thr Phe Gly Pro Thr Lys Leu Ala Ala Asn Cys
 20 25 30
 Asn Trp Met Pro Ser Arg Val Ala Arg Leu Pro Ser Val Arg Asp Thr
 35 40 45
 Val Arg Ser Pro Pro Ala Asp Thr Glu Ala Gly Arg Ile Ala Trp Pro
 50 55 60
 Thr Ser Pro Gly Cys Ser Arg Phe *
 65 70 72

<210> 1280
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 1280
 Met Leu Leu Leu Leu Glu Arg Met Ala Leu Cys Pro Val Leu Asp Val
 1 5 10 15
 His Thr His Leu Gly Cys Ile Ile Cys Val Phe Asp Val Ala Leu Ser
 20 25 30
 Arg Glu Leu Ala Leu Leu Cys Arg Lys Ser Asn Trp Trp Val Ile Asn
 35 40 45
 Trp Leu *
 50

<210> 1281
 <211> 144
 <212> PRT
 <213> Homo sapiens

<400> 1281
 Met Lys Ser Gly Ser Gly Gly Gly Ser Pro Thr Ser Leu Trp Gly Leu
 1 5 10 15
 Leu Phe Leu Ser Ala Ala Leu Ser Leu Trp Pro Thr Ser Gly Glu Ile
 20 25 30
 Cys Gly Pro Gly Ile Asp Ile Arg Asn Asp Tyr Gln Gln Leu Lys Arg
 35 40 45
 Leu Glu Asn Cys Thr Val Ile Glu Gly Tyr Leu His Ile Leu Leu Ile
 50 55 60
 Ser Lys Ala Glu Asp Tyr Arg Ser Tyr Arg Phe Pro Lys Leu Thr Val
 65 70 75 80
 Ile Thr Glu Tyr Leu Leu Leu Phe Arg Val Ala Gly Leu Glu Ser Leu
 85 90 95
 Gly Asp Leu Phe Pro Asn Leu Thr Val Ile Arg Gly Trp Lys Leu Phe
 100 105 110
 Tyr Asn Tyr Ala Leu Val Ile Phe Glu Met Thr Asn Leu Lys Asp Ile
 115 120 125
 Gly Leu Tyr Asn Leu Arg Asn Ile Thr Arg Gly Gly His Gln Asp *
 130 135 140 143

<210> 1282
 <211> 267
 <212> PRT
 <213> Homo sapiens

<400> 1282
 Met Gly Pro Pro Ser Ala Cys Pro His Arg Glu Cys Ile Pro Trp Gln
 1 5 10 15
 Gly Leu Leu Leu Thr Ala Ser Leu Leu Thr Phe Trp Asn Ala Pro Thr
 20 25 30
 Thr Ala Trp Leu Phe Ile Ala Ser Ala Pro Phe Glu Val Ala Glu Gly
 35 40 45
 Glu Asn Val His Leu Ser Val Val Tyr Leu Pro Glu Asn Leu Tyr Ser
 50 55 60
 Tyr Gly Trp Tyr Lys Gly Lys Thr Val Glu Pro Asn Gln Leu Ile Ala
 65 70 75 80
 Ala Tyr Val Ile Asp Asp Thr His Val Arg Thr Pro Gly Pro Ala Tyr
 85 90 95
 Ser Gly Arg Glu Thr Ile Ser Pro Ser Gly Asp Leu His Phe Gln Asn
 100 105 110
 Val Thr Leu Glu Asp Thr Gly Tyr Asn Leu Gln Val Thr Tyr Arg
 115 120 125
 Asn Ser Gln Ile Glu Gln Ala Ser His His Leu Arg Val Tyr Gln Val
 130 135 140
 Ser Gly Leu Thr Pro Pro Ser Lys Pro Ala Ala Pro Gln Ser Pro Arg
 145 150 155 160
 Arg Ala Pro Gly Val Leu Thr Cys His Thr Asn Asn Thr Gly Thr Ser
 165 170 175
 Phe Gln Trp Ile Phe Asn Asn Gln Arg Leu Gln Val Thr Lys Arg Met

```

      180      185      190
Lys Leu Ser Trp Phe Asn His Met Leu Thr Ile Asp Pro Ile Arg Gln
      195      200      205
Glu Asp Ala Gly Glu Tyr Gln Cys Glu Val Ser Asn Pro Val Ser Ser
      210      215      220
Asn Arg Ser Asp Pro Leu Lys Leu Thr Val Lys Ser Asp Asp Asn Thr
      225      230      235      240
Leu Gly Ile Leu Ile Gly Val Leu Val Gly Ser Leu Leu Val Ala Ala
      245      250      255
Leu Val Cys Phe Leu Leu Leu Arg Lys Thr Gly
      260      265      267

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<210> 1283
<211> 262
<212> PRT
<213> Homo sapiens

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<400> 1283
Met Leu Val Leu Leu Val Leu Arg Val Ser Leu Ala Ala Leu Val Lys
  1      5      10      15
Met Glu Leu Leu Val Arg Trp Ala Pro Val Ala Cys Leu Val Arg Glu
      20      25      30
Val Ala Leu Glu Pro Leu Ala Leu Leu Val Leu Val Glu Met Met Val
      35      40      45
Leu Leu Val Leu Pro Gly Pro Leu Val Pro Pro Ala Pro Leu Val Leu
      50      55      60
Leu Ala Ser Leu Val Leu Leu Val Leu Arg Val Lys Leu Val Pro Lys
      65      70      75      80
Gly Pro Glu Ala Leu Lys Val Pro Arg Val Cys Val Val Ser Leu Ala
      85      90      95
Pro Leu Ala Leu Leu Val Leu Leu Ala Leu Leu Glu Thr Leu Val Leu
      100      105      110
Arg Glu Ser Leu Val Leu Lys Val Pro Met Val Leu Leu Val Leu Leu
      115      120      125
Val Leu Leu Ala Ser Leu Val Pro Glu Ala Pro Leu Asp Pro Arg Ala
      130      135      140
Pro Ala Ala Leu Leu Val Pro Arg Val Thr Ala Val Asn Leu Val Leu
      145      150      155      160
Leu Ala Ala Lys Glu Thr Leu Val Leu Arg Glu Ser Leu Ala Leu Leu
      165      170      175
Val Phe Lys Asp Pro Leu Ala Leu Leu Glu Arg Lys Glu Ser Glu Glu
      180      185      190
Leu Glu Val Asn Pro Asp Pro Leu Ala Cys Pro Asp Pro Leu Ala Ser
      195      200      205
Val Val Asp Leu Val Ala Val Val Ser Leu Ala Gln Met Val Leu Leu
      210      215      220
Val Pro Arg Val Pro Leu Val Asn Val Val Leu Leu Ala Leu Leu Ala
      225      230      235      240
Pro Lys Asp Leu Leu Val Lys Leu Val Val Pro Val Lys Leu Val Cys
      245      250      255
Leu Val Pro Arg Val *
      260 261

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<210> 1284

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<211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1284
 Met Val Ile Leu Pro Leu Leu Leu Leu Ile Thr Thr Pro Pro Met Thr
 1 5 10 15
 Phe Leu Ala Phe Leu Leu Thr Leu Ile Leu Ser Cys Lys Asn Cys Ser
 20 25 30
 Lys Leu Ala Ala Ser Met Ile Arg Leu Leu Trp Gly Gly Cys Asn Gln
 35 40 45
 Glu *
 49

<210> 1285
 <211> 323
 <212> PRT
 <213> Homo sapiens

<400> 1285
 Met Leu Val Met Ala Pro Arg Thr Val Leu Leu Leu Leu Ser Ala Ala
 1 5 10 15
 Leu Ala Leu Thr Glu Thr Trp Ala Gly Ser His Ser Met Arg Tyr Phe
 20 25 30
 Tyr Thr Ser Val Ser Arg Pro Gly Arg Gly Glu Pro Arg Phe Ile Ser
 35 40 45
 Val Gly Tyr Val Asp Asp Thr Gln Phe Val Arg Phe Asp Ser Asp Ala
 50 55 60
 Ala Ser Pro Arg Glu Glu Pro Arg Ala Pro Trp Ile Glu Gln Glu Gly
 65 70 75 80
 Pro Glu Tyr Trp Asp Arg Asn Thr Gln Ile Tyr Lys Ala Gln Ala Gln
 85 90 95
 Thr Asp Arg Glu Ser Leu Arg Asn Leu Arg Gly Tyr Tyr Asn Gln Ser
 100 105 110
 Glu Ala Gly Ser His Thr Leu Gln Ser Met Tyr Gly Cys Asp Val Gly
 115 120 125
 Pro Asp Gly Arg Leu Leu Arg Gly His Asp Gln Tyr Ala Tyr Asp Gly
 130 135 140
 Lys Asp Tyr Ile Ala Leu Asn Glu Asp Leu Arg Ser Trp Thr Ala Ala
 145 150 155 160
 Asp Thr Ala Ala Gln Ile Thr Gln Arg Lys Trp Glu Ala Ala Arg Glu
 165 170 175
 Ala Glu Gln Arg Arg Ala Tyr Leu Glu Gly Glu Cys Val Glu Trp Leu
 180 185 190
 Arg Arg Tyr Leu Glu Asn Gly Lys Asp Lys Leu Glu Arg Ala Asp Pro
 195 200 205
 Pro Lys Thr His Val Thr His His Pro Ile Ser Asp His Glu Ala Thr
 210 215 220
 Leu Arg Cys Trp Ala Leu Gly Phe Tyr Pro Ala Glu Ile Thr Leu Thr
 225 230 235 240
 Trp Gln Arg Asp Gly Glu Asp Gln Thr Gln Asp Thr Glu Leu Val Glu
 245 250 255
 Thr Arg Pro Ala Gly Asp Arg Thr Phe Gln Lys Val Gly Gln Leu Trp
 260 265 270
 Val Val Pro Ser Gly Glu Glu Gln Arg Tyr Thr Cys His Val Gln His

275 280 285
 Val Gly Ala Ala Glu Ala Pro His Pro Ser Glu Met Gly Ser Gly Leu
 290 295 300
 Pro Ser Ser Thr Val Pro His Arg Trp Ala Leu Val Leu Gly Leu Gly
 305 310 315 320
 Cys Pro *
 322

<210> 1286
 <211> 306
 <212> PRT
 <213> Homo sapiens

<400> 1286
 Met Leu Leu Phe Leu Leu Ser Ala Leu Val Leu Leu Thr Gln Pro Leu
 1 5 10 15
 Gly Tyr Leu Glu Ala Glu Met Lys Thr Tyr Ser His Arg Thr Met Pro
 20 25 30
 Ser Ala Cys Thr Leu Val Met Cys Ser Ser Val Glu Ser Gly Leu Pro
 35 40 45
 Gly Arg Asp Gly Arg Asp Gly Arg Glu Gly Pro Arg Gly Glu Lys Gly
 50 55 60
 Asp Pro Gly Leu Pro Gly Ala Ala Gly Gln Ala Gly Met Pro Gly Gln
 65 70 75 80
 Ala Gly Pro Val Gly Pro Lys Gly Asp Asn Gly Ser Val Gly Glu Pro
 85 90 95
 Gly Pro Lys Gly Asp Thr Gly Pro Ser Gly Pro Pro Gly Pro Pro Gly
 100 105 110
 Val Pro Gly Pro Ala Gly Arg Glu Gly Pro Leu Gly Lys Gln Gly Asn
 115 120 125
 Ile Gly Pro Gln Gly Lys Pro Gly Pro Lys Gly Glu Ala Gly Pro Lys
 130 135 140
 Gly Glu Val Gly Ala Pro Gly Met Gln Gly Ser Ala Gly Ala Arg Gly
 145 150 155 160
 Leu Ala Gly Pro Lys Gly Glu Arg Gly Val Pro Gly Glu Arg Gly Val
 165 170 175
 Pro Gly Asn Thr Gly Ala Ala Gly Ser Ala Gly Ala Met Gly Pro Gln
 180 185 190
 Gly Ser Pro Gly Ala Arg Gly Pro Pro Gly Leu Lys Gly Asp Lys Gly
 195 200 205
 Ile Pro Gly Asp Lys Gly Ala Lys Gly Glu Ser Gly Leu Pro Asp Val
 210 215 220
 Ala Ser Leu Arg Gln Gln Val Glu Ala Leu Gln Gly Gln Val Gln His
 225 230 235 240
 Leu Gln Ala Ala Phe Ser Gln Tyr Lys Lys Val Glu Leu Phe Pro Asn
 245 250 255
 Gly Gln Ser Val Gly Glu Lys Ile Phe Lys Thr Ala Gly Phe Val Lys
 260 265 270
 Pro Phe Thr Glu Ala Gln Leu Leu Cys Thr Gln Ala Gly Gly Gln Leu
 275 280 285
 Ala Ser Pro Arg Ser Ala Ala Glu Asn Ala Pro Leu Ala Thr Ala Gly
 290 295 300
 Pro *
 305

<210> 1287
 <211> 299
 <212> PRT
 <213> Homo sapiens

<400> 1287
 Met Gly Arg Trp Ala Leu Asp Val Ala Phe Leu Trp Lys Ala Val Leu
 1 5 10 15
 Thr Leu Gly Leu Val Leu Leu Tyr Tyr Cys Phe Ser Ile Gly Ile Thr
 20 25 30
 Phe Tyr Asn Lys Trp Leu Thr Lys Ser Phe His Phe Pro Leu Phe Met
 35 40 45
 Thr Met Leu His Leu Ala Val Ile Phe Leu Phe Ser Ala Leu Ser Arg
 50 55 60
 Ala Leu Val Gln Cys Ser Ser His Arg Ala Arg Val Val Leu Ser Trp
 65 70 75 80
 Ala Asp Tyr Leu Arg Arg Val Ala Pro Thr Ala Leu Ala Thr Ala Leu
 85 90 95
 Asp Val Gly Leu Ser Asn Trp Ser Phe Leu Tyr Val Thr Val Ser Leu
 100 105 110
 Tyr Thr Met Thr Lys Ser Ser Ala Val Leu Phe Ile Leu Ile Phe Ser
 115 120 125
 Leu Ile Phe Lys Leu Glu Glu Leu Arg Ala Ala Leu Val Leu Val Val
 130 135 140
 Leu Leu Ile Ala Gly Gly Leu Phe Met Phe Thr Tyr Lys Ser Thr Gln
 145 150 155 160
 Phe Asn Val Glu Gly Phe Ala Leu Val Leu Gly Ala Ser Phe Ile Gly
 165 170 175
 Gly Ile Arg Trp Thr Leu Thr Gln Met Leu Leu Gln Lys Ala Glu Leu
 180 185 190
 Gly Leu Gln Asn Pro Ile Asp Thr Met Phe His Leu Gln Pro Leu Met
 195 200 205
 Phe Leu Gly Leu Phe Pro Leu Phe Ala Val Phe Glu Gly Leu His Leu
 210 215 220
 Ser Thr Ser Glu Lys Ile Phe Arg Phe Gln Gly His Arg Ala Ala Pro
 225 230 235 240
 Ala Gly Thr Trp Gly Ala Ser Ser Leu Ala Gly Phe Ser Pro Leu Val
 245 250 255
 Trp Ala Ser Leu Ser Ser Ser Trp Ser Pro Glu Pro Pro Ala Ser Leu
 260 265 270
 Ser Pro Leu Pro Ala Phe Leu Arg Lys Ser Ala Leu Cys Cys Trp Gln
 275 280 285
 Leu Ile Cys Trp Ala Ile Arg Ser Ala Ser *
 290 295 298

<210> 1288
 <211> 161
 <212> PRT
 <213> Homo sapiens

<400> 1288
 Met Glu Ser Ala Leu Pro Ala Ala Gly Phe Leu Tyr Trp Val Gly Ala
 1 5 10 15
 Gly Thr Val Ala Tyr Leu Ala Leu Arg Ile Ser Tyr Ser Leu Phe Thr

```

      20      25      30
Ala Leu Arg Val Trp Gly Val Gly Asn Glu Ala Gly Val Gly Pro Gly
      35      40      45
Leu Gly Glu Trp Ala Val Val Thr Gly Ser Thr Asp Gly Ile Gly Lys
      50      55      60
Ser Tyr Ala Glu Glu Leu Ala Lys His Gly Met Lys Val Val Leu Ile
      65      70      75      80
Ser Arg Ser Lys Asp Lys Leu Asp Gln Val Ser Ser Glu Ile Lys Glu
      85      90      95
Lys Phe Lys Val Glu Thr Arg Thr Ile Ala Val Asp Phe Ala Ser Glu
      100      105      110
Asp Ile Tyr Asp Lys Ile Lys Thr Gly Leu Ala Gly Leu Glu Ile Gly
      115      120      125
Ile Leu Val Asn Asn Val Gly Met Ser Tyr Glu Tyr Pro Glu Tyr Phe
      130      135      140
Leu Asp Val Pro Asp Leu Asp Asn Val Ile Lys Lys Asn Asp Lys Tyr
      145      150      155      160
*
```

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<210> 1289
<211> 46
<212> PRT
<213> Homo sapiens
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<400> 1289
Met Val Leu Ser Ala Pro Ser Leu Trp Pro Cys Ser Ser Phe Ser Ile
      1      5      10      15
Ser Cys Leu His Val Gly Leu Thr Ala Phe Leu Phe Gln Val Ala Phe
      20      25      30
Leu Cys Leu Leu Cys Cys Val Glu Leu Leu Leu Asp Val *
      35      40      45
```

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<210> 1290
<211> 453
<212> PRT
<213> Homo sapiens
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<400> 1290
Met Thr Ser Lys Phe Ile Leu Val Ser Phe Ile Leu Ala Ala Leu Ser
      1      5      10      15
Leu Ser Thr Thr Phe Ser Leu Gln Pro Asp Gln Gln Lys Val Leu Leu
      20      25      30
Val Ser Phe Asp Gly Phe Arg Trp Asp Tyr Leu Tyr Lys Val Pro Thr
      35      40      45
Pro His Phe His Tyr Ile Met Lys Tyr Gly Val His Val Lys Gln Val
      50      55      60
Thr Asn Val Phe Ile Thr Lys Thr Tyr Pro Asn His Tyr Thr Leu Val
      65      70      75      80
Thr Gly Leu Phe Ala Glu Asn His Gly Ile Val Ala Asn Asp Met Phe
      85      90      95
Asp Pro Ile Arg Asn Lys Ser Phe Ser Leu Asp His Met Asn Ile Tyr
      100      105      110
```

```

Asp Ser Lys Phe Trp Glu Glu Ala Thr Pro Ile Trp Ile Thr Asn Gln
    115          120          125
Arg Ala Gly His Thr Ser Gly Ala Ala Met Trp Pro Gly Thr Asp Val
    130          135          140
Lys Ile His Lys Arg Phe Pro Thr His Tyr Met Pro Tyr Asn Glu Ser
    145          150          155          160
Val Ser Phe Glu Asp Arg Val Ala Lys Ile Ile Glu Trp Phe Thr Ser
    165          170          175
Lys Glu Pro Ile Asn Leu Gly Leu Leu Tyr Trp Glu Asp Pro Asp Asp
    180          185          190
Met Gly His His Leu Gly Pro Asp Ser Pro Leu Met Gly Pro Val Ile
    195          200          205
Ser Asp Ile Asp Lys Lys Leu Gly Tyr Leu Ile Gln Met Leu Lys Lys
    210          215          220
Ala Lys Leu Trp Asn Thr Leu Asn Leu Ile Ile Thr Ser Asp His Gly
    225          230          235          240
Met Thr Gln Cys Ser Glu Glu Arg Leu Ile Glu Leu Asp Gln Tyr Leu
    245          250          255
Asp Lys Asp His Tyr Thr Leu Ile Asp Gln Ser Pro Val Ala Ala Ile
    260          265          270
Leu Pro Lys Glu Gly Lys Phe Asp Glu Val Tyr Glu Ala Leu Thr His
    275          280          285
Ala His Pro Asn Leu Thr Val Tyr Lys Lys Glu Asp Val Pro Glu Arg
    290          295          300
Trp His Tyr Lys Tyr Asn Ser Arg Ile Gln Pro Ile Ile Ala Val Ala
    305          310          315          320
Asp Glu Gly Trp His Ile Leu Gln Asn Lys Ser Asp Asp Phe Leu Leu
    325          330          335
Gly Asn His Gly Tyr His Asn Ala Leu Ala Asp Met His Pro Ile Phe
    340          345          350
Leu Ala His Gly Pro Ala Phe Arg Lys Asn Phe Ser Lys Glu Ala Met
    355          360          365
Asn Ser Thr Asp Leu Tyr Pro Leu Leu Cys His Leu Leu Asn Ile Thr
    370          375          380
Ala Met Pro His Asn Gly Ser Phe Trp Asn Val Gln Asp Leu Leu Asn
    385          390          395          400
Ser Ala Met Pro Arg Val Val Pro Tyr Thr Gln Ser Thr Ile Leu Leu
    405          410          415
Pro Gly Ser Val Lys Pro Ala Glu Tyr Asp Gln Glu Gly Ser Tyr Pro
    420          425          430
Tyr Phe Ile Gly Val Ser Leu Gly Ser Ile Ile Val Ile Val Phe Phe
    435          440          445
Cys Asn Phe His *
    450          452

```

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<210> 1291
<211> 78
<212> PRT
<213> Homo sapiens

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<221> misc_feature
<222> (1)...(78)
<223> Xaa = any amino acid or nothing

```

```

<400> 1291
Met Leu Ser Val Thr Ala Phe Ile Leu Ala Glu Thr Val Leu Ala Ser

```

```

      1           5           10           15
Gln Glu Val Gln Gly Gly Val Gln Val Arg Val Tyr Leu Met Asn Ala
      20           25           30
Val Pro Asp Gly Leu Gln Gly Gly Ser Pro Val Gly Gly Leu Gly Leu
      35           40           45
Leu Leu Ala Pro Asp Asn Ser Gly His Arg Arg Ser Ser Cys Arg Ile
      50           55           60
Pro Ala Ala Arg Val Tyr Xaa Xaa Xaa Xaa Pro Arg Pro Pro
      65           70           75           78

```

<210> 1292
 <211> 416
 <212> PRT
 <213> Homo sapiens

```

      <400> 1292
Met Val Leu Trp Ile Leu Trp Arg Pro Phe Gly Phe Ser Gly Arg Phe
      1           5           10           15
Leu Lys Leu Glu Ser His Ser Ile Thr Glu Ser Lys Ser Leu Ile Pro
      20           25           30
Val Ala Trp Thr Ser Leu Thr Gln Met Leu Leu Glu Ala Pro Gly Ile
      35           40           45
Phe Leu Leu Gly Gln Arg Lys Arg Phe Ser Thr Met Pro Glu Thr Glu
      50           55           60
Thr His Glu Arg Glu Thr Glu Leu Phe Ser Pro Pro Ser Asp Val Arg
      65           70           75           80
Gly Met Thr Lys Leu Asp Arg Thr Ala Phe Lys Lys Thr Val Asn Ile
      85           90           95
Pro Val Leu Lys Val Arg Lys Glu Ile Val Ser Lys Leu Met Arg Ser
      100          105          110
Leu Lys Arg Ala Ala Leu Gln Arg Pro Gly Ile Arg Arg Val Ile Glu
      115          120          125
Asp Pro Glu Asp Lys Glu Ser Arg Leu Ile Met Leu Asp Pro Tyr Lys
      130          135          140
Ile Phe Thr His Asp Ser Phe Glu Lys Ala Glu Leu Ser Val Leu Glu
      145          150          155
Gln Leu Asn Val Ser Pro Gln Ile Ser Lys Tyr Asn Leu Glu Leu Thr
      165          170          175
Tyr Glu His Phe Lys Ser Glu Glu Ile Leu Arg Ala Val Leu Pro Glu
      180          185          190
Gly Gln Asp Val Thr Ser Gly Phe Ser Arg Ile Gly His Ile Ala His
      195          200          205
Leu Asn Leu Arg Asp His Gln Leu Pro Phe Lys His Leu Ile Gly Gln
      210          215          220
Val Met Ile Asp Lys Asn Pro Gly Ile Thr Ser Ala Val Asn Lys Ile
      225          230          235
Asn Asn Ile Asp Asn Met Tyr Arg Asn Phe Gln Met Glu Val Leu Ser
      245          250          255
Gly Glu Gln Asn Met Met Thr Lys Val Arg Glu Asn Asn Tyr Thr Tyr
      260          265          270
Glu Phe Asp Phe Ser Lys Val Tyr Trp Asn Pro Arg Leu Ser Thr Glu
      275          280          285
His Ser Arg Ile Thr Glu Leu Leu Lys Pro Gly Asp Val Leu Phe Asp
      290          295          300
Val Phe Ala Gly Val Gly Pro Phe Ala Ile Pro Val Ala Lys Lys Asn
      305          310          315          320

```

Cys	Thr	Val	Phe	Ala	Asn	Asp	Leu	Asn	Pro	Glu	Ser	His	Lys	Trp	Leu
			325					330						335	
Leu	Tyr	Asn	Cys	Lys	Leu	Asn	Lys	Val	Asp	Gln	Lys	Val	Lys	Val	Phe
			340					345					350		
Asn	Leu	Asp	Gly	Lys	Asp	Phe	Leu	Gln	Gly	Pro	Val	Lys	Glu	Glu	Leu
			355				360					365			
Met	Gln	Leu	Leu	Gly	Leu	Ser	Lys	Glu	Arg	Lys	Pro	Ser	Val	His	Val
	370					375					380				
Val	Met	Asn	Leu	Pro	Ala	Lys	Ala	Ile	Glu	Phe	Leu	Ser	Ala	Phe	Lys
	385				390					395					400
Trp	Leu	Leu	Asp	Gly	Gln	Pro	Met	Pro	Ala	Val	Ser	Ser	Phe	Pro	*
				405					410					415	

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<210> 1293
<211> 113
<212> PRT
<213> Homo sapiens
```

<400> 1293																
Met	Val	Arg	Pro	Leu	Leu	Leu	Leu	Asn	Leu	His	Phe	His	Leu	Pro	Ser	
1				5					10					15		
Leu	Val	Ser	Leu	Ser	Leu	Ser	Leu	Leu	Leu	Ser	Val	Ser	Leu	Ser	Leu	
			20					25					30			
Val	Asn	Ala	Val	Arg	Leu	Leu	Arg	Ala	Ser	Phe	Cys	Ser	Trp	Leu	Ile	
		35					40					45				
Ala	Lys	Ser	Leu	Ile	Thr	Leu	Trp	Val	Arg	Pro	Ser	Gln	Ile	Gly	Lys	
	50					55					60					
Leu	Lys	Ala	Leu	Ala	Ser	Ser	Thr	Thr	Ser	Met	Ala	Trp	Glu	Gly	Leu	
65					70					75					80	
Leu	Asp	Thr	Phe	Ala	Leu	Ser	Ile	Ser	Ser	Phe	Ser	Asn	Ser	Leu	Leu	
				85					90					95		
Gly	Ile	Leu	Leu	Cys	Phe	Leu	Lys	Ser	Pro	Asn	Ile	Phe	Gln	Ala	Ser	
			100					105					110		112	
*																

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<210> 1294
<211> 57
<212> PRT
<213> Homo sapiens
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<400> 1294															
Met	Asp	Phe	Leu	Met	Leu	Ala	Val	Cys	Ala	His	Arg	Leu	Cys	Phe	Leu
1				5					10					15	
Tyr	Leu	Phe	Ile	Leu	Tyr	Glu	Ser	Lys	Asn	Lys	Arg	Glu	Cys	Glu	Gln
			20					25					30		
Phe	Arg	Arg	Leu	Gln	Ile	Tyr	Leu	Val	Arg	Leu	Leu	Ser	Lys	Arg	Phe
		35					40					45			
Pro	Val	Val	Val	Ile	Pro	Ala	Val	*							
	50					55	56								

<210> 1295
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1295
 Met Phe Leu Ser Leu Cys Leu Leu Ser Ala Ala Leu Thr Lys Ile Ser
 1 5 10 15
 Ser Lys Ile Leu Tyr Lys Pro Gly Thr Lys Val Thr Ser Leu Gln Phe
 20 25 30
 Ile Pro Thr Ser Ser Ser Tyr Thr His Met Asn Cys Val Asn Gly Ser
 35 40 45
 Thr Asp Pro Ile Tyr Val Ser Gly Arg Arg Arg Met Cys Ser Ser Cys
 50 55 60
 Val Phe Ile *
 65 67

<210> 1296
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 1296
 Met Trp Ser Ala His Pro Leu Ala Val Leu Ser Leu Lys Leu Thr Leu
 1 5 10 15
 Phe Ser Leu Thr Ser Asp Trp Leu Ser Ser Lys Asp Met Ala Ile Ser
 20 25 30
 Leu Ala Phe Lys Ile Ser Gln Ile Leu Cys Ser Val Leu Ser Ala Pro
 35 40 45
 Gly Lys Arg Leu Ile Ser Val Leu Trp Asn Thr Ser Ser Leu Lys Arg
 50 55 60
 Ser *
 65

<210> 1297
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1297
 Met Leu His Ser Gln Leu Leu Ala Val Ser Phe Arg Leu Ile Val Thr
 1 5 10 15
 Leu Pro Leu Ser Ile Gln Asp Trp Asp Asp Ala Glu Asn Met Lys Gly
 20 25 30
 Leu Gln Tyr Ile Phe Asn Thr Leu Trp Ser Val Ser Ser Pro Val Ile
 35 40 45
 Thr Ser Ile Leu Ser Ser Lys His *
 50 55 56

<210> 1298

<211> 235
 <212> PRT
 <213> Homo sapiens

<400> 1298
 Met Arg Lys Thr Arg Leu Trp Gly Leu Leu Trp Met Leu Phe Val Ser
 1 5 10 15
 Glu Leu Arg Ala Ala Thr Lys Leu Thr Glu Glu Lys Tyr Glu Leu Lys
 20 25 30
 Glu Gly Gln Thr Leu Asp Val Lys Cys Asp Tyr Thr Leu Glu Lys Phe
 35 40 45
 Ala Ser Ser Gln Lys Ala Trp Gln Ile Ile Arg Asp Gly Glu Met Pro
 50 55 60
 Lys Thr Leu Ala Cys Thr Glu Arg Pro Ser Lys Asn Ser His Pro Val
 65 70 75 80
 Gln Val Gly Arg Ile Leu Glu Asp Tyr His Asp His Gly Leu Leu
 85 90 95
 Arg Val Arg Met Val Asn Leu Gln Val Glu Asp Ser Gly Leu Tyr Gln
 100 105 110
 Cys Val Ile Tyr Gln Pro Pro Lys Glu Pro His Met Leu Phe Asp Arg
 115 120 125
 Ile Arg Leu Val Val Thr Lys Gly Phe Ser Gly Thr Pro Gly Ser Asn
 130 135 140
 Glu Asn Ser Thr Gln Asn Val Tyr Lys Ile Pro Pro Thr Thr Thr Lys
 145 150 155 160
 Ala Leu Cys Pro Leu Tyr Thr Thr Pro Arg Thr Val Thr Gln Ala Pro
 165 170 175
 Pro Lys Ser Thr Ala Asp Val Ser Thr Pro Asp Ser Glu Ile Asn Leu
 180 185 190
 Thr Asn Val Thr Asp Ile Ile Arg Val Pro Val Phe Asn Ile Val Ile
 195 200 205
 Leu Leu Ala Gly Gly Phe Leu Ser Lys Ser Leu Val Phe Ser Val Leu
 210 215 220
 Phe Ala Val Thr Leu Arg Ser Phe Val Pro *
 225 230 234

<210> 1299
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 1299
 Met Arg Trp Lys Val Gln Val Asn Ser Leu Met Val Leu Pro Ser Leu
 1 5 10 15
 Thr Val Cys Tyr Ser Thr His Leu Ser Thr Gly Cys Arg His Ile Lys
 20 25 30
 Val Asn Val Gln Val Leu Glu Asn Ile Gln Arg Ile Leu Asn Val Gln
 35 40 45
 Asn Ser Glu Lys Gln Ile Tyr Ala Glu Cys Val Val Gly Ala Phe *
 50 55 60 63

<210> 1300
 <211> 80

<212> PRT
 <213> Homo sapiens

<400> 1300
 Met Ala Ser Arg Ser Asn Tyr Leu Thr Glu Thr Leu Thr Pro Phe Pro
 1 5 10 15
 Ala Leu Leu Ser Leu Phe Met Leu Tyr Leu Ser His Thr Gly Phe Asp
 20 25 30
 Asn Ile Ile Pro Thr Phe Pro Thr Lys Pro Ala Tyr Thr Leu His Arg
 35 40 45
 Leu Leu Pro His Cys Pro Asp Ile His Ile Ala Tyr Ser Leu Ile Ser
 50 55 60
 Ser His Leu Phe Ala Gln Gly Ala Ser Leu Ser Thr Arg Thr His *
 65 70 75 79

<210> 1301
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 1301
 Met Arg Phe Arg Ala Glu Pro Lys Ser Arg Pro Leu Pro Ala Leu Cys
 1 5 10 15
 His Val Leu Ile Ala Cys Ile Val Phe Arg Trp Ala Phe Ala Gln Pro
 20 25 30
 Leu Pro Ser Ser Arg Ser Tyr Arg Ser Ser Gly Glu Phe Pro Arg Ser
 35 40 45
 Pro Ser Phe Lys Lys Thr Lys Thr Pro Ser Trp Gly Glu Arg Arg Val
 50 55 60
 Leu Leu Tyr Ser Arg Met Leu Arg Ala Asn Leu Arg Met Trp Arg Glu
 65 70 75 80
 Tyr Trp Ser Gln Lys Ser Ile
 85 87

<210> 1302
 <211> 143
 <212> PRT
 <213> Homo sapiens

<400> 1302
 Met Asp His Cys Gly Ala Leu Phe Leu Cys Leu Cys Leu Leu Thr Leu
 1 5 10 15
 Gln Asn Ala Thr Thr Glu Thr Trp Glu Glu Leu Leu Ser Tyr Met Glu
 20 25 30
 Asn Met Gln Val Ser Arg Gly Arg Ser Ser Val Phe Ser Ser Arg Gln
 35 40 45
 Leu His Gln Leu Glu Gln Met Leu Leu Asn Thr Ser Phe Pro Gly Tyr
 50 55 60
 Asn Leu Thr Leu Gln Thr Pro Thr Ile Gln Ser Leu Ala Phe Lys Leu
 65 70 75 80
 Ser Cys Asp Phe Ser Gly Leu Ser Leu Thr Ser Ala Thr Leu Lys Arg
 85 90 95

Val Pro Gln Ala Gly Gly Gln His Ala Arg Gly Gln His Ala Met Gln
 100 105 110
 Phe Pro Ala Glu Leu Thr Arg Asp Ala Cys Lys Thr Arg Pro Arg Glu
 115 120 125
 Leu Arg Leu Ile Cys Ile Tyr Phe Ser Asn Thr His Phe Phe Lys
 130 135 140 143

<210> 1303
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 1303
 Met Ile Leu Leu Met Ser Ala Ala Ile Phe Cys Ser Ala Glu Val Phe
 1 5 10 15
 Thr Arg Gly Ser Phe Phe Ser Asp Met Leu Thr Leu Asp Arg Val Lys
 20 25 30
 Ala Lys Gly Leu Gln Gly Glu Gly Ala Ala Ser Thr Cys Ala Leu Ala
 35 40 45
 Ala Asp Ser Gln Gly Ser Gly Ala Ser Gly Thr Lys
 50 55 60

<210> 1304
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1304
 Met Lys Met Met Phe Ile Ile Thr Asn Trp Leu Asn Tyr Tyr Phe Leu
 1 5 10 15
 Leu Phe Ser Pro Ser Asn Pro Gln Ile Gln Ser Ile Leu His Glu Val
 20 25 30
 Ala Pro Leu Trp Phe Arg Thr Leu Tyr Thr Leu Leu Arg Gly Cys Ser
 35 40 45
 Thr Trp Lys Gly Leu Ser Ser *
 50 55

<210> 1305
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 1305
 Met Asn Ile Ile Phe Ile Tyr Leu Ala Thr Ser Leu Ala Phe Leu Ile
 1 5 10 15
 Ile Asn Leu Ser Gln Leu Leu Phe Thr Glu Tyr Leu His Phe Arg Cys
 20 25 30
 Cys Ser Lys Cys Ser Thr Cys Ile Asn Leu Leu Ser His His Glu Trp
 35 40 45
 Glu Leu Leu Pro Ser Ser Tyr Arg Arg Gly Ser Arg Ser Pro *

50

55

60

62

<210> 1306
 <211> 138
 <212> PRT
 <213> Homo sapiens

<400> 1306
 Met Gln Asn Arg Thr Gly Leu Ile Leu Cys Ala Leu Ala Leu Leu Met
 1 5 10 15
 Gly Phe Leu Met Val Cys Leu Gly Ala Phe Phe Ile Ser Trp Gly Ser
 20 25 30
 Ile Phe Asp Cys Gln Gly Ser Leu Ile Ala Ala Tyr Leu Leu Pro
 35 40 45
 Leu Gly Phe Val Ile Leu Leu Ser Gly Ile Phe Trp Ser Asn Tyr Arg
 50 55 60
 Gln Val Thr Glu Ser Lys Gly Val Leu Arg His Met Leu Arg Gln His
 65 70 75 80
 Leu Ala His Gly Ala Leu Pro Val Ala Thr Val Asp Arg Pro Asp Phe
 85 90 95
 Tyr Pro Pro Ala Tyr Glu Glu Ser Leu Glu Val Glu Lys Gln Ser Cys
 100 105 110
 Pro Ala Glu Arg Glu Ala Pro Arg His Ser Ser Thr Ser Ile Tyr Arg
 115 120 125
 Asp Gly Pro Gly Ile Pro Gly Trp Lys *
 130 135 137

<210> 1307
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 1307
 Met Met Ala Ile Lys Pro Thr Ile Leu Val Thr Gln Gly Leu Ile Leu
 1 5 10 15
 Cys Trp Lys Cys His Lys Met Ile Cys Ser Tyr Phe Asn Leu Gln Leu
 20 25 30
 Glu Arg His Phe Leu Glu Thr Ile Gln Ser Asp Ser Phe Met Glu Lys
 35 40 45
 Leu Thr Leu Thr Asp Leu Thr Ile Tyr Arg Ile His Val Ala Thr His
 50 55 60 64

<210> 1308
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 1308

```

Met Pro Cys Ser Gly Ser Ser Val Gln Thr Phe Arg Pro Leu Leu Ile
 1           5           10           15
Phe His Asn Val Thr Phe Phe Ile Leu Pro Val Lys Cys Phe Asn Ala
           20           25           30
Leu Ile Asn Val Leu Glu Arg Pro Phe Trp Gln Leu Leu Gly Glu Ile
           35           40           45
Gly Glu Glu Tyr Arg Gly Ser Glu Asp Trp Leu Gly Gly Ser Phe Arg
 50           55           60           64

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<210> 1309
<211> 75
<212> PRT
<213> Homo sapiens

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<400> 1309
Met Arg Ile Trp His Arg Trp Leu Leu Val Arg Ile Leu Phe Pro Ala
 1           5           10           15
Pro Gly Leu Gln Thr Ala Thr Phe Ser Val Cys Phe His Val Ala Glu
           20           25           30
Ser Glu Leu Trp His Leu Leu Cys Phe Phe Phe Phe Leu Ala Leu Leu
           35           40           45
Pro Pro Arg Trp Lys Ala Arg Gly Pro Ile Trp Val His Gly Thr Leu
 50           55           60
Gly Phe Arg Val Gly Arg Asn Phe Leu Ala *
65           70           74

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<210> 1310
<211> 46
<212> PRT
<213> Homo sapiens

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```

<400> 1310
Met Lys Leu Gly Asp Val Phe Val Lys Leu Leu Val Ser Leu Ala Gly
 1           5           10           15
Glu Ile Leu Leu Ala Pro Leu Val Ser Ala Ser Gly Met Gly Pro Ala
           20           25           30
Gly Val Glu Ala Leu Glu Glu Val Ser Ala Leu Ser Val *
           35           40           45

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<210> 1311
<211> 105
<212> PRT
<213> Homo sapiens

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<400> 1311
Met Tyr Trp Val Thr Val Ile Thr Leu Ile Tyr Gly Tyr Tyr Ala Trp
 1           5           10           15
Val Gly Phe Trp Pro Glu Ser Ile Pro Tyr Gln Asn Leu Gly Pro Leu

```

```

      20      25      30
Gly Pro Leu Thr Gln Tyr Leu Met Asp His His His Thr Leu Leu Cys
      35      40      45
Asn Gly Tyr Trp Leu Ala Trp Leu Ile His Val Gly Glu Ser Leu His
      50      55      60
Ala Ile Leu Leu Gly Glu Arg Lys Gly Ile Thr Ser Gly Arg Ser Gln
      65      70      75      80
Leu Leu Trp Leu Leu Gln Thr Leu Phe Phe Gly Ile Thr Thr Leu Thr
      85      90      95
Ile Phe Asp Ala Tyr Lys Arg Lys Arg
      100      105

```

<210> 1312
 <211> 114
 <212> PRT
 <213> Homo sapiens

```

      <400> 1312
Met Lys Gly Lys Trp Cys Cys Ser Leu Leu Cys Gln Ser Pro Gln Val
  1      5      10      15
Gln Thr Ala Leu Val Cys Pro Leu Ser Leu Ser Leu Gly Pro Pro Gly
      20      25      30
Pro Gln Cys Pro Leu Leu Trp Leu Gly Gln Glu Asp Leu Pro Asp Ile
      35      40      45
Ala Arg Cys Ile Thr Asp Asp Cys Ser Gln Leu Pro Gln Ala Pro Ala
      50      55      60
Ser Leu Ala Ser Cys Phe Phe Pro Gln Ser Cys Leu Leu Ile Ser Ile
      65      70      75      80
His Leu Ser Met Gly Tyr Ser Trp Thr Leu Gly Leu Gly Val Gly Ile
      85      90      95
Arg Leu Leu Pro Thr Lys Gly Val Lys Val Thr His Phe Pro Tyr His
      100      105      110
Ala *
113

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<210> 1313
 <211> 88
 <212> PRT
 <213> Homo sapiens

```

      <400> 1313
Met Ser Ser Ser Gly Gln Leu Gly His Pro Pro Arg Ala Pro His Ser
  1      5      10      15
Trp Arg Arg Trp Cys Trp Trp Leu Phe Met Leu Ala Thr Ser Leu Ser
      20      25      30
Arg Arg Arg Arg Pro Ser Thr Pro Leu Ile His Tyr Arg Val Phe Thr
      35      40      45
Val Asn His Lys Met Asp Pro Val Thr Arg Thr Phe Thr Leu Asp Ile
      50      55      60
Lys Val Val Phe Pro Asp Glu Gly Trp Gly Val Val Val Asp Pro Gly
      65      70      75      80
His Trp Gly Tyr Met Val Cys *
      85      87

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<210> 1314
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 1314
 Met Gly Gly Arg Leu Trp Ile Phe Leu Gln Leu Cys Gln Ser Leu Gly
 1 5 10 15
 Leu Ser Thr Val Val Ser Ser Arg Pro Val Ala Cys Leu Glu Ser Val
 20 25 30
 Pro Gly Met Cys Met Ser Val Cys Met Pro Leu Asn Tyr Arg Gly Ser
 35 40 45
 Asn Phe Ser Glu Thr Asp Val Trp Met Asp Leu Ser Arg Ala His Leu
 50 55 60 64
 *

<210> 1315
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 1315
 Met Leu Ile Pro Ile Pro Val His Ile Phe Pro Leu Ser Ser Leu Leu
 1 5 10 15
 Gly Asp Gly Thr Met Arg Leu Leu Pro Asp Ile Ser Ser Asp Trp Leu
 20 25 30
 Cys Leu Asn Gln Glu Phe Ala Pro Val Gln Ser Ala Ile Ala Met Glu
 35 40 45
 Trp Gly Ser Cys Val Gly Asp Gln Asp Asp Thr His Trp Ile Cys Leu
 50 55 60
 Arg Gln Thr Ser Gly Val *
 65 70

<210> 1316
 <211> 114
 <212> PRT
 <213> Homo sapiens

<400> 1316
 Met Ala Thr Pro Ser Ser Pro Trp Trp Ala His Ser Gly Leu Pro Pro
 1 5 10 15
 Leu Phe Ser Ser Gly Leu Ser Trp Arg Leu Val Pro Leu Phe Trp Cys
 20 25 30
 Leu Gln Ser Leu Thr Gly Phe Leu Gly Pro Cys Leu Pro Arg Thr Thr
 35 40 45
 Arg Ala Phe Leu Ser Leu Gln Ser Trp Asp Leu Pro Gly Thr Arg Pro
 50 55 60
 Gly Ser Gln Ala Gln Gly Phe Thr Ala Cys Asn Ala Ala Asn Thr Pro

65 70 75 80
 Gly Leu Ala Ala Leu Pro Gly Ser Gly Ala Phe Ser Val Ile Pro Val
 85 90 95
 Ser Leu Leu Leu Pro Val Pro Glu Gly Leu Gly Arg Thr Tyr Leu Tyr
 100 105 110
 Ser *
 113

<210> 1317
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 1317
 Met Met Val Trp Asn Leu Phe Pro Cys Phe Pro Pro Leu Leu Leu Leu
 1 5 10 15
 Gln Phe Ile Asp Cys Gln Gln Ser Ser Glu Ile Glu Gln Gly Phe Thr
 20 25 30
 Arg Ser Leu Leu Gly His Pro Ile Phe Phe Cys Pro Asp Pro Cys Trp
 35 40 45
 Gln Ser Cys Met Asn Cys Val Ile Leu Leu Ser Ala Phe Phe Phe Leu
 50 55 60
 Phe Asp Lys Met Asp Ile Lys Asn Ser Cys Cys Ala Lys Val Ser Ser
 65 70 75 80
 Leu Leu Gln Glu Glu Asn Gln Phe Phe Phe *
 85 90

<210> 1318
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 1318
 Met Leu Pro Leu Ile Ser Ser Ile Lys Ile Leu Lys Leu Leu Tyr Tyr
 1 5 10 15
 Phe Ser Val Trp Gly Trp Gly Phe Phe Phe Glu Thr Glu Phe Arg
 20 25 30
 Ser Cys Cys Pro Gly Trp Ser Ala Met Val Arg Ser Gln Leu Thr Ala
 35 40 45
 Thr Ser Thr Ser Arg Val Gln Ala Ile Leu Leu Pro Gln Pro Pro Glu
 50 55 60 64
 *

<210> 1319
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1319

Met Val Thr Leu Leu Ile Ala Lys Gln Phe Trp Ile Phe Thr Val Asp
 1 5 10 15
 Leu His Leu Ser Asp Tyr Val Leu Glu Leu Ser Arg Tyr Leu Ile Asn
 20 25 30
 Ala Cys Phe Tyr Ser Pro Cys Ser Gln Pro Ile Glu Lys *
 35 40 45

<210> 1320
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1320
 Met Pro Ala Leu Leu Val Leu Lys Val Val Lys Val Leu Leu Pro Met
 1 5 10 15
 Val Leu Thr Gly Leu Gly Val Glu Glu Leu Lys Glu Met Val Leu Leu
 20 25 30
 Leu Pro Val Pro Cys Ala Ala Ile Ile Gly Ser Phe Lys Leu *
 35 40 45 46

<210> 1321
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 1321
 Met Ile Cys Phe Cys Leu Pro Val Cys Pro Lys Thr His Leu Ala His
 1 5 10 15
 Pro Met Leu Ala Thr Leu Ala Phe Val Ser Leu Leu Glu Tyr Ala Lys
 20 25 30
 His Cys Leu Arg Asp Phe Ile Leu Val Ser Phe Leu Leu Gly Met Leu
 35 40 45
 Phe Leu Arg Tyr Gln His *
 50 54

<210> 1322
 <211> 301
 <212> PRT
 <213> Homo sapiens

<400> 1322
 Met Lys Ile Ala Phe Gly Asn Leu Trp Met Glu Ile Leu Tyr Leu Lys
 1 5 10 15
 Pro Pro Trp Thr Leu Leu His Leu Leu Gln Cys Phe Lys Lys His Trp
 20 25 30
 Leu Ala Val Phe Gly Leu Val Met Glu Lys Asn Leu Leu Leu Thr Ile
 35 40 45
 Glu Ser Leu Tyr Lys Asn Leu Arg Lys Ala Asn Lys Ala Val Asp Phe
 50 55 60
 Thr Thr Val Lys Phe Leu Leu Gln Asp Ser Arg Ser Leu Leu His Ala

```

65          70          75          80
Phe Ser Thr Arg Ser Asn Tyr Asp Gly Ile Leu Pro Gln Thr Phe Ala
85          90          95
Gln Val Asn Asn Leu Leu Gln Thr Phe Ala Glu Val Lys Thr Lys Leu
100        105        110
Lys Pro Asn Ser Ser Glu Asn Thr Val Thr Lys Lys Gln Glu Gly Thr
115        120        125
Ser Leu Lys Asn Ser His Asn Gln Glu Ile Thr Val Phe Ser Ser Ser
130        135        140
His Leu Pro Gln Pro Ser Arg His Gln Glu Ile Trp Ser Ile Leu Glu
145        150        155        160
Ser Val Trp Ile Thr Ile Tyr Gln Asn Ser Thr Asp Val Phe Gln Arg
165        170        175
Leu Gly Ser Asn Ser Ala Leu Thr Thr Ser Asn Ile Ala Ser Phe Glu
180        185        190
Glu Ala Phe Ile Cys Leu Gln Lys Leu Met Ala Ala Val Arg Asp Ile
195        200        205
Leu Glu Gly Ile Gln Arg Ile Leu Ala Pro Asn Ser Asn Tyr Gln Asp
210        215        220
Val Glu Thr Leu Tyr Asn Phe Leu Ile Lys Tyr Glu Val Asn Lys Asn
225        230        235        240
Val Lys Phe Thr Ala Gln Glu Ile Tyr Asp Cys Val Ser Gln Thr Glu
245        250        255
Tyr Arg Glu Lys Leu Thr Ile Gly Cys Arg Gln Leu Val Glu Met Glu
260        265        270
Tyr Thr Met Gln Gln Cys Asn Ala Ser Val Tyr Met Glu Ala Lys Asn
275        280        285
Arg Gly Trp Cys Glu Asp Met Leu Asn Tyr Arg Ile *
290        295        300

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<210> 1323
<211> 85
<212> PRT
<213> Homo sapiens

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<400> 1323
Met Thr Glu His Leu Ala Gln Gln Ser Glu Phe Ala Ala Thr Leu Leu
1      5      10      15
Leu Leu Trp Ala Pro Leu Lys Thr Gly Arg Leu Thr Asn Ser Phe Val
20     25     30
Asn Gly Pro Gly Gln His Gly Lys Met Cys Cys Ile Leu Pro Pro Lys
35     40     45
Thr Pro Val Ser Thr Lys Asn Ala Lys Ile Gly Arg Ala Trp Trp Cys
50     55     60
Thr Ser Val Ile Pro Ala Thr Trp Glu Ala Asp Thr Gly Glu Ser Leu
65     70     75     80
Glu Pro Gly Arg *
84

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<210> 1324
<211> 46
<212> PRT
<213> Homo sapiens

```

<400> 1324

```

Met Leu His His Ser Gln Leu Ile Phe Val Phe Leu Val Gln Thr Gly
 1              5              10              15
Phe His His Val Ala Leu Ser Gly Phe Lys Leu Leu Ala Ser Ser Asn
              20              25              30
Leu Pro Thr Leu Asp Pro Lys Val Leu Gly Leu Gln Val *
      35              40              45

```

<210> 1325

<211> 87

<212> PRT

<213> Homo sapiens

<400> 1325

```

Met Gly Leu Ser Lys Ala Phe Leu Ile Thr Arg Thr Val Phe Leu Ile
 1              5              10              15
Ser Ser Leu Ser Phe Tyr Ser Phe Leu Gly Phe Pro Ser Leu Cys Phe
              20              25              30
Thr Gly Ser Cys Met Leu Ser Thr Leu Phe Ile Arg Ala Leu Ser Ile
      35              40              45
Leu Val Ile Ile Val Leu Asn Ser Arg Ser Asp Lys Ser Asn Thr Pro
      50              55              60
Ala Ile Ser Glu Ser Gly Ser Asp Ala Cys Ser Phe Ser Ser Asn Phe
      65              70              75              80
Val Phe Cys Leu Leu Val *
              85 86

```

<210> 1326

<211> 69

<212> PRT

<213> Homo sapiens

<400> 1326

```

Met Ser Leu Phe Leu Phe Phe Leu Met Phe Gln Val Leu Ser Glu Val
 1              5              10              15
Ser Trp Gly Gly Val Gly Ser Val Ser Asn Gln Gly Leu Glu His His
              20              25              30
Glu Ile Val Thr Pro Asp Leu Gln Ser Leu Ala Gly Gly Trp Thr Gly
      35              40              45
Gly Arg Glu Arg Gly Phe Leu Phe Thr Phe Asn Ile Phe Leu Gln Lys
      50              55              60
Lys Gln Thr Ile *
      65              68

```

<210> 1327

<211> 103

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(103)

<223> Xaa = any amino acid or nothing

<400> 1327

```

Met Val Gly Phe Gly Thr Asn Arg Arg Ala Gly Arg Leu Pro Ser Leu
 1          5          10          15
Val Leu Val Val Leu Leu Val Val Ile Val Val Leu Ala Phe Asn Tyr
      20          25          30
Trp Ser Ile Ser Ser Arg His Val Leu Leu Glu Glu Glu Val Ala Glu
      35          40          45
Leu Gln Gly Arg Val Gln Arg Ala Glu Val Ala Leu Trp Arg Val Gly
      50          55          60
Gly Arg Asn Cys Asp Leu Leu Leu Val Val Gly Thr Arg Ser Arg Arg
      65          70          75          80
Ile Glu Glu Arg Gly Ala Asp Tyr Ser Arg Leu Ser Arg Arg Leu Gln
      85          90          95
Xaa Lys Glu Gly Leu Val Asn
      100          103

```

<210> 1328

<211> 52

<212> PRT

<213> Homo sapiens

<400> 1328

```

Met Arg Ala Arg Pro Ala Cys Thr Ala Thr Phe Pro Ser Phe His Leu
 1          5          10          15
Ala Leu Asp Ser Ser Tyr Leu Pro Cys Cys Lys Gly Lys Ala Thr Phe
      20          25          30
Ile Pro Lys Ser Arg Ile Tyr Leu Gln Glu Ala Lys Gly Ser Gly Glu
      35          40          45
Pro Leu Gly *
      50  51

```

<210> 1329

<211> 204

<212> PRT

<213> Homo sapiens

<400> 1329

```

Met Cys Thr Arg Asn Leu Ala Leu Leu Phe Ala Pro Ser Val Phe Gln
 1          5          10          15
Thr Asp Gly Arg Gly Glu His Glu Val Arg Val Leu Gln Glu Leu Ile
      20          25          30
Asp Gly Tyr Ile Ser Val Phe Asp Ile Asp Ser Asp Gln Val Ala Gln
      35          40          45
Ile Asp Leu Glu Val Ser Leu Ile Thr Thr Trp Lys Asp Val Gln Leu
      50          55          60
Ser Gln Ala Gly Asp Leu Ile Met Glu Val Tyr Ile Glu Gln Gln Leu
      65          70          75          80
Pro Asp Asn Cys Val Thr Leu Lys Val Ser Pro Thr Leu Thr Ala Glu
      85          90          95

```

```

Glu Leu Thr Asn Gln Val Leu Glu Met Arg Gly Thr Ala Ala Gly Met
      100      105
Asp Leu Trp Val Thr Phe Glu Ile Arg Glu His Gly Glu Leu Glu Arg
      115      120      125
Pro Leu His Pro Lys Glu Lys Val Leu Glu Gln Ala Leu Gln Trp Cys
      130      135      140
Gln Leu Pro Glu Pro Cys Ser Ala Ser Leu Leu Lys Lys Val Pro
145      150      155      160
Leu Ala Gln Ala Gly Cys Leu Phe Thr Gly Ile Arg Arg Glu Ser Pro
      165      170      175
Arg Val Gly Leu Phe Ala Val Phe Val Arg Ser His Leu Ala Cys Trp
      180      185      190
Gly Ser Arg Phe Gln Glu Arg Phe Phe Leu Val Ala
      195      200      204

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<210> 1330
<211> 199
<212> PRT
<213> Homo sapiens

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```

<400> 1330
Met Pro Val Pro Ala Leu Cys Leu Leu Trp Ala Leu Ala Met Val Thr
 1      5      10      15
Arg Pro Ala Ser Ala Ala Pro Met Gly Gly Pro Glu Leu Ala Gln His
      20      25      30
Glu Glu Leu Thr Leu Leu Phe His Gly Thr Leu Gln Leu Gly Gln Ala
      35      40      45
Leu Asn Gly Val Tyr Arg Thr Thr Glu Gly Arg Leu Thr Lys Ala Arg
 50      55      60
Asn Ser Leu Gly Leu Tyr Gly Arg Thr Ile Glu Leu Leu Gly Gln Glu
65      70      75      80
Val Ser Arg Gly Arg Asp Ala Ala Gln Glu Leu Arg Ala Ser Leu Leu
      85      90      95
Glu Thr Gln Met Glu Glu Asp Ile Leu Gln Leu Gln Ala Glu Ala Thr
      100      105      110
Ala Glu Val Leu Gly Glu Val Ala Gln Ala Gln Lys Val Leu Arg Asp
      115      120      125
Ser Val Gln Arg Leu Glu Val Gln Leu Arg Ser Ala Trp Leu Gly Pro
130      135      140
Ala Tyr Arg Glu Phe Glu Val Leu Lys Ala His Ala Asp Lys Gln Ser
145      150      155      160
His Ile Leu Trp Ala Leu Thr Gly His Val Gln Arg Gln Arg Arg Glu
      165      170      175
Met Val Ala Gln Gln His Arg Leu Arg Gln Ile Gln Glu Arg Leu His
      180      185      190
Thr Ala Ala Leu Pro Ala *
      195      198

```

```

<210> 1331
<211> 81
<212> PRT
<213> Homo sapiens

```

```

<400> 1331
Met Ala Arg Pro Ser Ala Phe Pro Ile Gly Val Cys Leu Thr Leu Pro
 1           5           10           15
Met Ala Trp Ile Ser Pro Gly Leu Ala Val Pro Ser Cys Pro Gln Tyr
          20           25           30
Ile Leu Gln Ala Gln Gly Cys Ile Leu Asp Met Lys Thr Arg Gly Ser
          35           40           45
His Gly Glu Ser Ala Val Pro Gly Ala His Gly Ser Arg Pro Phe His
          50           55           60
Pro Leu Ala Glu Pro Asn Pro Pro Arg Gln Lys Leu Thr Pro Cys Thr
 65           70           75           80
*
```

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<210> 1332
<211> 73
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(73)
<223> Xaa = any amino acid or nothing
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<400> 1332
Met Thr Ile Ile Leu Gln Ile Glu Thr Val Ile Phe Leu Leu Tyr Leu
 1           5           10           15
Ala Pro Asp Thr Val Arg Pro Leu Thr Ile Ile Thr Gly Met Ala Gly
          20           25           30
Ile Val Lys Gln Gln Ile Asp Ser His Ile Thr Asp Pro Asp Gln Gln
          35           40           45
Asn Asn Gly Leu Ser Leu Ser Gly Pro Pro Pro Ala Pro Asp Pro Leu
          50           55           60
Asp Xaa Leu Val Pro Thr Leu Trp Gly
 65           70           73
```

```

<210> 1333
<211> 52
<212> PRT
<213> Homo sapiens
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```

<400> 1333
Met Leu Val Tyr Ile Leu Trp Asn Met Tyr Phe Asn Val Cys Ile Val
 1           5           10           15
Pro Gly Val Ile Lys Ser Lys Thr Gly Thr Gln Asp Leu Ser Gly Leu
          20           25           30
Trp Pro Leu Gly Thr Phe Pro Leu Ile Thr Phe Leu Pro Thr Trp Leu
          35           40           45
Ser Tyr Gly *
          50           51
```

```

<210> 1334
```

<211> 65
 <212> PRT
 <213> Homo sapiens

<400> 1334
 Met Ile Leu Phe Gln Leu Pro Ser Asn Val Phe Val Leu Leu Met Phe
 1 5 10 15
 Leu Phe Leu Phe Glu Phe Phe Leu Thr Leu Val Pro Met Trp Ala Phe
 20 25 30
 Pro Gly Asp Lys Thr Phe Val Ser Pro Ala Ser Ser Leu Ser Phe Leu
 35 40 45
 Asp Leu Ser Phe Leu Leu Phe Cys Asn Ser Val Ser Ile Gly Lys Gln
 50 55 60 64
 *

<210> 1335
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 1335
 Met Leu His Pro Glu Thr Ser Pro Gly Arg Gly His Leu Leu Ala Val
 1 5 10 15
 Leu Leu Ala Leu Leu Gly Thr Ala Trp Ala Glu Val Trp Pro Pro Gln
 20 25 30
 Leu Gln Glu Gln Ala Pro Met Ala Gly Ala Leu Asn Arg Lys Glu Ser
 35 40 45
 Phe Leu Leu Leu Ser Leu His Asn Arg Leu Arg Ser Trp Val Gln Pro
 50 55 60
 Pro Ala Ala Asp Met Arg Arg Leu Asp Trp Ser Asp Ser Leu Ala Gln
 65 70 75 80
 Leu Ala Gln Ala Arg Ala Ala Leu Cys Gly Ile Pro Thr Pro Ser Leu
 85 90 95
 Ala Ser Gly Leu Trp Arg Thr Leu Gln Val Gly Trp Asn Met Gln Leu
 100 105 110 112

<210> 1336
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 1336
 Met Thr Gly Asn Leu Cys Phe Phe Ser Ile Lys Gly Tyr Leu Leu Thr
 1 5 10 15
 Ser Glu Ile Leu Met Ile Tyr Leu Thr Leu Glu Phe Cys Ile Leu Arg
 20 25 30
 Gly Lys His Leu Asn Val Ser Phe Lys Ala Gly Asp Thr Phe Ile Leu
 35 40 45
 Tyr Leu Gly Ser Leu Gly Phe Glu Glu Gly Gly Pro Glu Ile Leu

```

      50              55              60
Lys Asp Cys Met Gly Gly Leu Ser Ser Pro Pro Leu Trp Lys Ala Glu
 65              70              75              80
Ala Gly Cys Ile Ile Trp Gly Leu Gly Val Trp Asp His Pro Trp Ala
      85              90              95
Thr Thr Arg His Pro Leu Leu Cys *
      100              104

```

```

<210> 1337
<211> 57
<212> PRT
<213> Homo sapiens

```

```

<400> 1337
Met Tyr Val Leu Ser Ser Ala His Leu Cys Phe Leu Cys Leu Gln Cys
 1              5              10              15
Ser Ser Leu Glu Val Tyr Leu Ile Ser Ser Leu Thr Ser Phe Arg Ser
      20              25              30
Val Leu Asn Cys Tyr Pro Pro Glu Arg Ser Ser Leu Thr Ile Gln Tyr
      35              40              45
Gln Ile Leu Leu Leu Leu Leu Gln *
      50              55 56

```

```

<210> 1338
<211> 59
<212> PRT
<213> Homo sapiens

```

```

<400> 1338
Met Arg Ile Ile Ser Leu Thr Leu Met Leu Leu Glu Leu Phe Asp Ser
 1              5              10              15
Glu Asp Pro Arg Gln Arg Glu Tyr Leu Lys Asn Ile Leu His Arg Leu
      20              25              30
Tyr Gly Arg Met Leu Gly Leu Arg Pro Tyr Ile His Lys Gln Ser Lys
      35              40              45
His Ile Phe Leu Arg Met Ile Tyr Glu Phe *
      50              55              58

```

```

<210> 1339
<211> 50
<212> PRT
<213> Homo sapiens

```

```

<400> 1339
Met Ile Lys Leu Ala Ile Trp Ser Ile Ile Ile Gly Leu Arg Leu Thr
 1              5              10              15
Ile Leu Phe Cys Ile Glu Thr Arg Glu Ser Asp Ile Cys Lys Ile Leu
      20              25              30
Gln Tyr Thr Glu Ser Thr Ile Phe Trp Arg Phe Phe Pro Val Tyr Arg
      35              40              45

```


Tyr *
49

<210> 1340
<211> 81
<212> PRT
<213> Homo sapiens

<400> 1340
Met Pro Leu Ala Cys Thr Gly Leu Asn Thr Gln Arg Phe Ser Tyr Leu
1 5 10 15
Arg Asp Leu Phe Leu Pro Trp Gly Leu Cys Ile Leu Tyr Ser Ile Leu
20 25 30
Ser Ala Ile Phe Pro Asp Leu Ser Ser Ala Lys Leu Pro Ser Leu
35 40 45
His Ile Ala Phe Phe Thr Leu Phe Lys Val Thr Lys Gly Thr Ser Pro
50 55 60
Lys Ala Thr Asp Val Pro Val Ala Cys Phe Ile Asn His Asn Arg Thr
65 70 75 80
*

<210> 1341
<211> 60
<212> PRT
<213> Homo sapiens

<400> 1341
Met Phe Glu Ile His Arg Ala His Gly Val Phe Leu Leu Leu Ser Ile
1 5 10 15
Gln Leu Thr Thr Ser Leu Lys Arg Lys Ser Gly Glu Gly Asp Arg Glu
20 25 30
Ser Pro Ala Ser Trp Phe Ser Pro Phe Ser Gln Met Phe Phe Leu Ile
35 40 45
Asn Thr Ile Leu Leu Pro Phe Lys Ile Pro Ile *
50 55 59

<210> 1342
<211> 49
<212> PRT
<213> Homo sapiens

<400> 1342
Met Leu Ser Leu Phe Ile Phe Leu Arg Phe Leu Pro Leu Gly Phe Cys
1 5 10 15
Trp Lys Glu Leu His Pro Glu Ala Glu Gln Ser Glu Lys Val Asp Phe
20 25 30
Arg Lys Pro Trp Tyr Leu Thr Gly His Ala Ala Ser Leu Gly Ala Asp
35 40 45 48
*

<210> 1343
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 1343
 Met Arg Leu Ala Val Ser Cys Ile Thr Ser Phe Leu Met Leu Ser Leu
 1 5 10 15
 Leu Leu Phe Met Ala His Arg Leu Arg Gln Arg Arg Arg Glu Arg Ile
 20 25 30
 Glu Ser Leu Ile Gly Ala Asn Leu His His Phe Asn Leu Gly Arg Arg
 35 40 45
 Ile Pro Gly Phe Asp Tyr Gly Pro Asp Gly Phe Gly Thr Gly Leu Thr
 50 55 60
 Pro Leu Ala Phe Phe *
 65 69

<210> 1344
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 1344
 Met Phe Leu Ser Leu Ser Leu Thr Leu Cys Leu Cys Phe Ser Phe Phe
 1 5 10 15
 Cys Leu Tyr Leu Ser Leu Ala Leu Tyr Leu Gly Ser Phe Phe Cys Leu
 20 25 30
 Pro Phe His Val Ser Val Phe Leu Cys Leu Phe Pro Ser Val Leu Phe
 35 40 45
 Leu Ser Val Ala Leu Gly Ser Pro Glu Asn His Ile Ser Trp Arg Lys
 50 55 60
 Val Gly Glu Glu Leu Lys Leu Ala Ser His Arg Asn Phe Cys Ser Leu
 65 70 75 80
 Met Gln Lys Met Arg Ser Asn Lys Pro Ser Pro Ser Arg Pro Arg Gly
 85 90 95
 Trp Ala *
 98

<210> 1345
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 1345
 Met Lys Val Leu Trp Ala Gly Val Leu Gly Thr Phe Leu Ala Gly Cys
 1 5 10 15
 Gln Ala Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu
 20 25 30

```

Cys Gln Gln Thr Glu Trp Lys Ser Gly Gln Arg Trp Glu Leu Glu Leu
      35          40          45
Gly Arg Phe Trp Asp Tyr Leu Arg Trp Glu Gln Thr Leu Ser Glu Gln
      50          55          60
Val Gln Glu Glu Leu Val Ser Ser Gln Val Thr Gln Glu Leu Lys Ala
      65          70          75          80
Leu Met Asp Glu Thr Met Lys Glu Met Lys Ala Tyr Lys Ser Asp Leu
      85          90          95
Glu Glu Gln Leu Thr Pro Val Ala Gly Arg Arg Trp His Gly Cys Thr
      100          105          110          112

```

<210> 1346
 <211> 360
 <212> PRT
 <213> Homo sapiens

```

<400> 1346
Met Leu Phe Val Pro Val Thr Leu Cys Met Ile Val Val Val Ala Thr
  1          5          10          15
Ile Lys Ser Val Arg Phe Tyr Thr Glu Lys Asn Gly Gln Leu Ile Tyr
      20          25          30
Thr Pro Phe Thr Glu Asp Thr Pro Ser Val Gly Gln Arg Leu Leu Asn
      35          40          45
Ser Val Leu Asn Thr Leu Ile Met Ile Ser Val Ile Val Val Met Thr
      50          55          60
Ile Phe Leu Val Val Leu Tyr Lys Tyr Arg Cys Tyr Lys Phe Ile His
      65          70          75          80
Gly Trp Leu Ile Met Ser Ser Leu Met Leu Leu Phe Leu Phe Thr Tyr
      85          90          95
Ile Tyr Leu Gly Glu Val Leu Lys Thr Tyr Asn Val Ala Met Asp Tyr
      100          105          110
Pro Thr Leu Leu Thr Val Trp Asn Phe Gly Ala Val Gly Met Val
      115          120          125
Cys Ile His Trp Lys Gly Pro Leu Val Leu Gln Gln Ala Tyr Leu Ile
      130          135          140
Met Ile Ser Ala Leu Met Ala Leu Val Phe Ile Lys Tyr Leu Pro Glu
      145          150          155          160
Trp Ser Ala Trp Val Ile Leu Gly Ala Ile Ser Val Tyr Asp Leu Val
      165          170          175
Ala Val Leu Cys Pro Lys Gly Pro Leu Arg Met Leu Val Glu Thr Ala
      180          185          190
Gln Glu Arg Asn Glu Pro Ile Phe Pro Ala Leu Ile Tyr Ser Ser Ala
      195          200          205
Met Val Trp Thr Val Gly Met Ala Lys Leu Asp Pro Ser Ser Gln Gly
      210          215          220
Ala Leu Gln Leu Pro Tyr Asp Pro Glu Met Glu Glu Asp Ser Tyr Asp
      225          230          235          240
Ser Phe Gly Glu Pro Ser Tyr Pro Glu Val Phe Glu Pro Pro Leu Thr
      245          250          255
Gly Tyr Pro Gly Glu Glu Leu Glu Glu Glu Glu Arg Gly Val Lys
      260          265          270
Leu Gly Leu Gly Asp Phe Ile Phe Tyr Ser Val Leu Val Gly Lys Ala
      275          280          285
Ala Ala Thr Gly Ser Gly Asp Trp Asn Thr Thr Leu Ala Cys Phe Val

```

```

      290              295              300
Ala Ile Leu Ile Gly Leu Cys Leu Thr Leu Leu Leu Ala Val Phe
305              310              315              320
Lys Lys Ala Leu Pro Ala Leu Pro Ile Ser Ile Thr Phe Gly Leu Ile
              325              330              335
Phe Tyr Phe Ser Thr Asp Asn Leu Val Arg Pro Phe Met Asp Thr Leu
              340              345              350
Ala Ser His Gln Leu Tyr Ile *
              355              359

```

```

<210> 1347
<211> 84
<212> PRT
<213> Homo sapiens

```

```

      <400> 1347
Met Ile Leu Ser Leu Tyr Tyr Lys Leu Phe Gly Lys Leu Ala Val Ala
 1              5              10              15
Thr Ile Glu Ile Leu His Cys Leu Cys Tyr Ile Glu Phe Val Ile Ile
              20              25              30
Phe Lys Gly Phe Lys Lys Ile Pro Ile Cys Phe Phe Ser Phe Leu Phe
              35              40              45
Ser Phe Val Pro His His Leu Asn Tyr Leu Gly Lys Tyr His Ser Ser
              50              55              60
Lys Phe Glu Tyr Cys Leu Ser Asn Lys Lys Lys Cys Glu Arg Tyr Glu
              65              70              75              80
Glu Glu Arg *
              83

```

```

<210> 1348
<211> 65
<212> PRT
<213> Homo sapiens

```

```

      <400> 1348
Met Val His Leu Leu Leu Val Phe Trp Ser Gly Pro His Asn Leu Gly
 1              5              10              15
Arg Phe Gln Pro Met Lys Leu Phe Ala Ile Cys Leu Asn Gln Ser Gly
              20              25              30
Tyr Ile Ile Ala Phe Phe Val Leu Tyr Thr Asn Arg Met Tyr Ser Ile
              35              40              45
Ile Asn Ile Ile Leu Asn Leu Phe Tyr Pro Val Tyr Tyr Cys Lys Ile
              50              55              60              64
*
```

```

<210> 1349
<211> 58
<212> PRT
<213> Homo sapiens

```

```

<400> 1349
Met Pro Ser Pro Ser Gly Leu Trp Arg Ile Leu Leu Leu Val Leu Gly
 1              5              10              15
Ser Val Leu Ser Gly Ser Ala Arg Ala Ala Pro Leu Arg Val Leu
              20              25              30
Arg Gln Thr Ala Leu Cys Cys Ala Thr Glu Ala Leu Val Ala Val Pro
              35              40              45
Glu Gly Ile Pro Thr Glu Thr Arg Leu *
              50              55              57

```

```

<210> 1350
<211> 60
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(60)
<223> Xaa = any amino acid or nothing

```

```

<400> 1350
Met Gly Ile Gly Cys Trp Arg Asn Pro Leu Val Leu Leu Met Ala Leu
 1              5              10              15
Ala Cys Gln Ala Ser Trp Gly Leu Ser Lys Gly Gly Arg Val Leu Pro
              20              25              30
Asn Leu Cys Pro Lys Lys Met Phe Xaa Thr Leu Phe Phe Phe Asn Ser
              35              40              45
Gln Arg Gly Arg Gly Pro Pro Phe Trp Ala Gly Gly
              50              55              60

```

```

<210> 1351
<211> 56
<212> PRT
<213> Homo sapiens

```

```

<400> 1351
Met Leu Leu Ala Leu Pro Leu Ala Ala Pro Ser Cys Pro Met Leu Cys
 1              5              10              15
Thr Cys Tyr Ser Ser Pro Pro Thr Val Ser Cys Gln Ala Asn Asn Phe
              20              25              30
Ser Ser Val Pro Leu Ser Leu Pro Pro Ser Thr Gln Arg Leu Phe Leu
              35              40              45
Gln Asn Asn Leu Ile Arg Thr Leu
              50              55              56

```

```

<210> 1352
<211> 701
<212> PRT
<213> Homo sapiens

```

<400> 1352

Met	Glu	Pro	Leu	Cys	Pro	Leu	Leu	Leu	Val	Gly	Phe	Ser	Leu	Pro	Leu
1				5					10					15	
Ala	Arg	Ala	Leu	Arg	Gly	Asn	Glu	Thr	Thr	Ala	Asp	Ser	Asn	Glu	Thr
			20					25					30		
Thr	Thr	Thr	Ser	Gly	Pro	Pro	Asp	Pro	Gly	Ala	Ser	Gln	Pro	Leu	Leu
			35				40					45			
Ala	Trp	Leu	Leu	Leu	Pro	Leu	Leu	Leu	Leu	Leu	Val	Leu	Leu	Leu	
	50					55				60					
Ala	Ala	Tyr	Phe	Phe	Arg	Phe	Arg	Lys	Gln	Arg	Lys	Ala	Val	Val	Ser
	65				70					75					80
Thr	Ser	Asp	Lys	Lys	Met	Pro	Asn	Gly	Ile	Leu	Glu	Glu	Gln	Glu	Gln
				85					90					95	
Gln	Arg	Val	Met	Leu	Leu	Ser	Arg	Ser	Pro	Ser	Gly	Pro	Lys	Lys	Tyr
			100					105					110		
Phe	Pro	Ile	Pro	Val	Glu	His	Leu	Glu	Glu	Glu	Ile	Arg	Ile	Arg	Ser
	115						120					125			
Ala	Asp	Asp	Cys	Lys	Gln	Phe	Arg	Glu	Glu	Phe	Asn	Ser	Leu	Pro	Ser
	130					135					140				
Gly	His	Ile	Gln	Gly	Thr	Phe	Glu	Leu	Ala	Asn	Lys	Glu	Glu	Asn	Arg
	145				150					155					160
Glu	Lys	Asn	Arg	Tyr	Pro	Asn	Ile	Leu	Pro	Asn	Asp	His	Ser	Arg	Val
				165					170					175	
Ile	Leu	Ser	Gln	Leu	Asp	Gly	Ile	Pro	Cys	Ser	Asp	Tyr	Ile	Asn	Ala
			180					185					190		
Ser	Tyr	Ile	Asp	Gly	Tyr	Lys	Glu	Lys	Asn	Lys	Phe	Ile	Ala	Ala	Gln
	195						200					205			
Gly	Pro	Lys	Gln	Glu	Thr	Val	Asn	Asp	Phe	Trp	Arg	Met	Val	Trp	Glu
	210					215					220				
Gln	Lys	Ser	Ala	Thr	Ile	Val	Met	Leu	Thr	Asn	Leu	Lys	Glu	Arg	Lys
					230					235					240
Glu	Glu	Lys	Cys	His	Gln	Tyr	Trp	Pro	Asp	Gln	Gly	Cys	Trp	Thr	Tyr
				245					250					255	
Gly	Asn	Ile	Arg	Val	Cys	Val	Glu	Asp	Cys	Val	Val	Leu	Val	Asp	Tyr
			260					265					270		
Thr	Ile	Arg	Lys	Phe	Cys	Ile	Gln	Pro	Gln	Leu	Pro	Asp	Gly	Cys	Lys
		275					280					285			
Ala	Pro	Arg	Leu	Val	Ser	Gln	Leu	His	Phe	Thr	Ser	Trp	Pro	Asp	Phe
	290					295					300				
Gly	Val	Pro	Phe	Thr	Pro	Ile	Gly	Met	Leu	Lys	Phe	Leu	Lys	Lys	Val
	305				310					315					320
Lys	Thr	Leu	Asn	Pro	Val	His	Ala	Gly	Pro	Ile	Val	Val	His	Cys	Ser
				325					330					335	
Ala	Gly	Val	Gly	Arg	Thr	Gly	Thr	Phe	Ile	Val	Ile	Asp	Ala	Met	Met
			340					345					350		
Ala	Met	Met	His	Ala	Glu	Gln	Lys	Val	Asp	Val	Phe	Glu	Phe	Val	Ser
		355					360					365			
Arg	Ile	Arg	Asn	Gln	Arg	Pro	Gln	Met	Val	Gln	Thr	Asp	Met	Gln	Tyr
	370					375					380				
Thr	Phe	Ile	Tyr	Gln	Ala	Leu	Leu	Glu	Tyr	Tyr	Leu	Tyr	Gly	Asp	Thr
	385				390					395					400
Glu	Leu	Asp	Val	Ser	Ser	Leu	Glu	Lys	His	Leu	Gln	Thr	Met	His	Gly
				405					410					415	
Thr	Thr	Thr	His	Phe	Asp	Lys	Ile	Gly	Leu	Glu	Glu	Glu	Phe	Arg	Lys
			420					425					430		
Leu	Thr	Asn	Val	Arg	Ile	Met	Lys	Glu	Asn	Met	Arg	Thr	Gly	Asn	Leu
		435					440					445			
Pro	Ala	Asn	Met	Lys	Lys	Ala	Arg	Val	Ile	Gln	Ile	Ile	Pro	Tyr	Asp
	450					455					460				

```

Phe Asn Arg Val Ile Leu Ser Met Lys Arg Gly Gln Glu Tyr Thr Asp
465                      470                      475                      480
Tyr Ile Asn Ala Ser Phe Ile Asp Gly Tyr Arg Gln Lys Asp Tyr Phe
                      485                      490                      495
Ile Ala Thr Gln Gly Pro Leu Ala His Thr Val Glu Asp Phe Trp Arg
                      500                      505                      510
Met Ile Trp Glu Trp Lys Ser His Thr Ile Val Met Leu Thr Glu Val
                      515                      520                      525
Gln Glu Arg Glu Gln Asp Lys Cys Tyr Gln Tyr Trp Pro Thr Glu Gly
                      530                      535                      540
Ser Val Thr His Gly Glu Ile Thr Ile Glu Ile Lys Asn Asp Thr Leu
545                      550                      555                      560
Ser Glu Ala Ile Ser Ile Arg Asp Phe Leu Val Thr Leu Asn Gln Pro
                      565                      570                      575
Gln Ala Arg Gln Glu Glu Gln Val Arg Val Val Arg Gln Phe His Phe
                      580                      585                      590
His Gly Trp Pro Glu Ile Gly Ile Pro Ala Glu Gly Lys Gly Met Ile
                      595                      600                      605
Asp Leu Ile Ala Ala Val Gln Lys Gln Gln Gln Gln Thr Gly Asn His
610                      615                      620
Pro Ile Thr Val His Cys Ser Ala Gly Ala Gly Arg Thr Gly Thr Phe
625                      630                      635                      640
Ile Ala Leu Ser Asn Ile Leu Glu Arg Val Lys Ala Glu Gly Leu Leu
                      645                      650                      655
Asp Val Phe Gln Ala Val Lys Ser Leu Arg Leu Gln Arg Pro His Met
660                      665                      670
Val Gln Thr Leu Glu Gln Tyr Glu Phe Cys Tyr Lys Val Val Gln Asp
675                      680                      685
Phe Ile Asp Ile Phe Ser Asp Tyr Ala Asn Phe Lys *
690                      695                      700

```

<210> 1353
 <211> 49
 <212> PRT
 <213> Homo sapiens

```

<400> 1353
Met Ala Phe Leu Tyr His Val Ala Tyr Val Leu Val Cys Met Leu Gly
1                      5                      10                      15
Leu Phe Cys His Glu Phe Phe Tyr Ser Phe Leu Leu Phe Glu Ser Val
                      20                      25                      30
Tyr Arg His Gln Thr Leu Leu Asn Asp Ile Pro Cys Val Lys Leu Met
35                      40                      45                      48
*
```

<210> 1354
 <211> 58
 <212> PRT
 <213> Homo sapiens

```

<400> 1354
Met Ser Val Cys Lys Tyr Thr Val Tyr Gly Phe Phe Ile Phe Ala Phe

```

1				5					10				15
Phe	Tyr	Phe	Thr	Lys	Asp	Asn	Ile	Pro	Tyr	Leu	Lys	Val	Ser
			20					25					30
Ala	Phe	Cys	Gly	Phe	Gln	Asn	Ile	Ser	Trp	Asn	Lys	Tyr	Thr
		35					40					45	
Phe	Tyr	Tyr	Ser	Pro	Leu	Thr	Ile	Ile	*				
	50					55		57					

<210> 1355
 <211> 4261
 <212> PRT
 <213> Homo sapiens

<400> 1355

Met	Leu	Ser	Ala	Ile	Leu	Leu	Leu	Leu	Gln	Leu	Trp	Asp	Ser	Gly	Ala
1				5					10					15	
Gln	Glu	Thr	Asp	Asn	Glu	Arg	Ser	Ala	Gln	Gly	Thr	Ser	Ala	Pro	Leu
			20					25					30		
Leu	Pro	Leu	Gln	Arg	Phe	Gln	Ser	Ile	Ile	Cys	Arg	Lys	Asp	Ala	
		35				40					45				
Pro	His	Ser	Glu	Gly	Asp	Met	His	Leu	Leu	Ser	Gly	Pro	Leu	Ser	Pro
	50				55					60					
Asn	Glu	Ser	Phe	Leu	Arg	Tyr	Leu	Thr	Leu	Pro	Gln	Asp	Asn	Glu	Leu
	65				70				75					80	
Ala	Ile	Asp	Leu	Arg	Gln	Thr	Ala	Val	Val	Val	Met	Ala	His	Leu	Asp
			85					90					95		
Arg	Leu	Ala	Thr	Pro	Cys	Met	Pro	Pro	Leu	Cys	Ser	Ser	Pro	Thr	Ser
			100					105					110		
His	Lys	Gly	Ser	Leu	Gln	Glu	Val	Ile	Gly	Trp	Gly	Leu	Ile	Gly	Trp
		115				120						125			
Lys	Tyr	Tyr	Ala	Asn	Val	Ile	Gly	Pro	Ile	Gln	Cys	Glu	Gly	Leu	Ala
	130				135					140					
Asn	Leu	Gly	Val	Thr	Gln	Ile	Ala	Cys	Ala	Glu	Lys	Arg	Phe	Leu	Ile
	145				150				155					160	
Leu	Ser	Arg	Asn	Gly	Arg	Val	Tyr	Thr	Gln	Ala	Tyr	Asn	Ser	Asp	Thr
			165					170						175	
Leu	Ala	Pro	Gln	Leu	Val	Gln	Gly	Leu	Ala	Ser	Arg	Asn	Ile	Val	Lys
		180					185					190			
Ile	Ala	Ala	His	Ser	Asp	Gly	His	His	Tyr	Leu	Ala	Leu	Ala	Ala	Thr
	195					200					205				
Gly	Glu	Val	Tyr	Ser	Trp	Gly	Cys	Gly	Asp	Gly	Gly	Arg	Leu	Gly	His
	210				215					220					
Gly	Asp	Thr	Val	Pro	Leu	Glu	Glu	Pro	Lys	Val	Ile	Ser	Ala	Phe	Ser
	225				230				235					240	
Gly	Lys	Gln	Ala	Gly	Lys	His	Val	Val	His	Ile	Ala	Cys	Gly	Ser	Thr
			245					250					255		
Tyr	Ser	Ala	Ala	Ile	Thr	Ala	Glu	Gly	Glu	Leu	Tyr	Thr	Trp	Gly	Arg
		260					265						270		
Gly	Asn	Tyr	Gly	Arg	Leu	Gly	His	Gly	Ser	Ser	Glu	Asp	Glu	Ala	Ile
	275					280					285				
Pro	Met	Leu	Val	Ala	Gly	Leu	Lys	Gly	Leu	Lys	Val	Ile	Asp	Val	Ala
	290					295					300				
Cys	Gly	Ser	Gly	Asp	Ala	Gln	Thr	Leu	Ala	Val	Thr	Glu	Asn	Gly	Gln
	305				310				315					320	
Val	Trp	Ser	Trp	Gly	Asp	Gly	Asp	Tyr	Gly	Lys	Leu	Gly	Arg	Gly	Gly
			325					330						335	

Ser Asp Gly Cys Lys Thr Pro Lys Leu Ile Glu Lys Leu Gln Asp Leu
 340 345 350
 Asp Val Val Lys Val Arg Cys Gly Ser Gln Phe Ser Ile Ala Leu Thr
 355 360 365
 Lys Asp Gly Gln Val Tyr Ser Trp Gly Lys Gly Asp Asn Gln Arg Leu
 370 375 380
 Gly His Gly Thr Glu Glu His Val Arg Tyr Pro Lys Leu Leu Glu Gly
 385 390 395 400
 Leu Gln Gly Lys Lys Val Ile Asp Val Ala Ala Gly Ser Thr His Cys
 405 410 415
 Leu Ala Leu Thr Glu Asp Ser Glu Val His Ser Trp Gly Ser Asn Asp
 420 425 430
 Gln Cys Gln His Phe Asp Thr Leu Arg Val Thr Lys Pro Glu Pro Ala
 435 440 445
 Ala Leu Pro Gly Leu Asp Thr Lys His Ile Val Gly Ile Ala Cys Gly
 450 455 460
 Pro Ala Gln Ser Phe Ala Trp Ser Ser Cys Ser Glu Trp Ser Ile Gly
 465 470 475 480
 Leu Arg Val Pro Phe Val Val Asp Ile Cys Ser Met Thr Phe Glu Gln
 485 490 495
 Leu Asp Leu Leu Leu Arg Gln Val Ser Glu Gly Met Asp Gly Ser Ala
 500 505 510
 Asp Trp Pro Pro Pro Gln Glu Lys Glu Cys Val Ala Val Ala Thr Leu
 515 520 525
 Asn Leu Leu Arg Leu Gln Leu His Ala Ala Ile Ser His Gln Val Asp
 530 535 540
 Pro Glu Phe Leu Gly Leu Gly Leu Gly Ser Ile Leu Leu Asn Ser Leu
 545 550 555 560
 Lys Gln Thr Val Val Thr Leu Ala Ser Ser Ala Gly Val Leu Ser Thr
 565 570 575
 Val Gln Ser Ala Ala Gln Ala Val Leu Gln Ser Gly Trp Ser Val Leu
 580 585 590
 Leu Pro Thr Ala Glu Glu Arg Ala Arg Ala Leu Ser Ala Leu Leu Pro
 595 600 605
 Cys Ala Val Ser Gly Asn Glu Val Asn Ile Ser Pro Gly Arg Arg Phe
 610 615 620
 Met Ile Asp Leu Leu Val Gly Ser Leu Met Ala Asp Gly Gly Leu Glu
 625 630 635 640
 Ser Ala Leu His Ala Ala Ile Thr Ala Glu Ile Gln Asp Ile Glu Ala
 645 650 655
 Lys Lys Glu Ala Gln Lys Glu Lys Glu Ile Asp Glu Gln Glu Ala Asn
 660 665 670
 Ala Ser Thr Phe His Arg Ser Arg Thr Pro Leu Asp Lys Asp Leu Ile
 675 680 685
 Asn Thr Gly Ile Cys Glu Ser Ser Gly Lys Gln Cys Leu Pro Leu Val
 690 695 700
 Gln Leu Ile Gln Gln Leu Leu Arg Asn Ile Ala Ser Gln Thr Val Ala
 705 710 715 720
 Arg Leu Lys Asp Val Ala Arg Arg Ile Ser Ser Cys Leu Asp Phe Glu
 725 730 735
 Gln His Ser Arg Glu Arg Ser Ala Ser Leu Asp Trp Leu Leu Arg Phe
 740 745 750
 Gln Arg Leu Leu Ile Ser Lys Leu Tyr Pro Gly Glu Ser Ile Gly Gln
 755 760 765
 Thr Ser Asp Ile Ser Ser Pro Glu Leu Met Gly Val Gly Ser Leu Leu
 770 775 780
 Lys Lys Tyr Thr Ala Leu Leu Cys Thr His Ile Gly Asp Ile Leu Pro
 785 790 795 800
 Val Ala Ala Ser Ile Ala Ser Thr Ser Trp Arg His Phe Ala Glu Val

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Pro His Ser Pro Ile Asn Val Asp Lys Arg Pro Ile Ala Ile Lys Ser
 1285 1290 1295
 Pro Lys Asp Lys Trp Gln Pro Leu Leu Ser Thr Val Thr Gly Val His
 1300 1305 1310
 Lys Tyr Lys Trp Leu Lys Gln Asn Val Gln Gly Leu Tyr Pro Gln Ser
 1315 1320 1325
 Pro Leu Leu Ser Thr Ile Ala Glu Phe Ala Leu Lys Glu Glu Pro Val
 1330 1335 1340
 Asp Val Glu Lys Met Arg Lys Cys Leu Leu Lys Gln Leu Glu Arg Ala
 1345 1350 1355 1360
 Glu Val Arg Leu Glu Gly Ile Asp Thr Ile Leu Lys Leu Ala Ser Lys
 1365 1370 1375
 Asn Phe Leu Leu Pro Ser Val Gln Tyr Ala Met Phe Cys Gly Trp Gln
 1380 1385 1390
 Arg Leu Ile Pro Glu Gly Ile Asp Ile Gly Glu Pro Leu Thr Asp Cys
 1395 1400 1405
 Leu Lys Asp Val Asp Leu Ile Pro Pro Phe Asn Arg Met Leu Leu Glu
 1410 1415 1420
 Val Thr Phe Gly Lys Leu Tyr Ala Trp Ala Val Gln Asn Ile Arg Asn
 1425 1430 1435 1440
 Val Leu Met Asp Ala Ser Ala Thr Phe Lys Glu Leu Gly Ile Gln Pro
 1445 1450 1455
 Val Pro Leu Gln Thr Ile Thr Asn Glu Asn Pro Ser Gly Pro Ser Leu
 1460 1465 1470
 Gly Thr Ile Pro Gln Ala Arg Phe Leu Leu Val Met Leu Ser Met Leu
 1475 1480 1485
 Thr Leu Gln His Gly Ala Asn Asn Leu Asp Leu Leu Leu Asn Ser Gly
 1490 1495 1500
 Met Leu Ala Leu Thr Gln Thr Ala Leu Arg Leu Ile Gly Pro Ser Cys
 1505 1510 1515 1520
 Asp Asn Val Glu Glu Asp Met Asn Ala Ser Ala Gln Gly Ala Ser Ala
 1525 1530 1535
 Thr Val Leu Glu Glu Thr Arg Lys Glu Thr Ala Pro Val Gln Leu Pro
 1540 1545 1550
 Val Ser Gly Pro Glu Leu Ala Ala Met Met Lys Ile Gly Thr Arg Val
 1555 1560 1565
 Met Arg Gly Val Asp Trp Lys Trp Gly Asp Gln Asp Gly Pro Pro Pro
 1570 1575 1580
 Gly Leu Gly Arg Val Ile Gly Glu Leu Gly Glu Asp Gly Trp Ile Arg
 1585 1590 1595 1600
 Val Gln Trp Asp Thr Gly Ser Thr Asn Ser Tyr Arg Met Gly Lys Glu
 1605 1610 1615
 Gly Lys Tyr Asp Leu Lys Leu Ala Glu Leu Pro Ala Ala Ala Gln Pro
 1620 1625 1630
 Ser Ala Glu Asp Ser Asp Thr Glu Asp Asp Ser Glu Ala Glu Gln Thr
 1635 1640 1645
 Glu Arg Asn Ile His Pro Thr Ala Met Met Phe Thr Ser Thr Ile Asn
 1650 1655 1660
 Leu Leu Gln Thr Leu Cys Leu Ser Ala Gly Val His Ala Glu Ile Met
 1665 1670 1675 1680
 Gln Ser Glu Ala Thr Lys Thr Leu Cys Gly Leu Leu Arg Met Leu Val
 1685 1690 1695
 Glu Ser Gly Thr Thr Asp Lys Thr Ser Ser Pro Asn Arg Leu Val Tyr
 1700 1705 1710
 Arg Glu Gln His Arg Ser Trp Cys Thr Leu Gly Phe Val Arg Ser Ile
 1715 1720 1725
 Ala Leu Thr Pro Gln Val Cys Gly Ala Leu Ser Ser Pro Gln Trp Ile
 1730 1735 1740
 Thr Leu Leu Met Lys Val Val Glu Gly His Ala Pro Phe Thr Ala Thr

1745 1750 1755 1760
 Ser Leu Gln Arg Gln Ile Leu Ala Val His Leu Leu Gln Ala Val Leu
 1765 1770 1775
 Pro Ser Trp Asp Lys Thr Glu Arg Ala Arg Asp Met Lys Cys Leu Val
 1780 1785 1790
 Glu Lys Leu Phe Asp Phe Leu Gly Ser Leu Leu Thr Thr Cys Ser Ser
 1795 1800 1805
 Asp Val Pro Leu Leu Arg Glu Ser Thr Leu Arg Arg Arg Val Arg
 1810 1815 1820
 Pro Gln Ala Ser Leu Thr Ala Thr His Ser Ser Thr Leu Ala Glu Glu
 1825 1830 1835 1840
 Val Val Ala Leu Leu Arg Thr Leu His Ser Leu Thr Gln Trp Asn Gly
 1845 1850 1855
 Leu Ile Asn Lys Tyr Ile Asn Ser Gln Leu Arg Ser Ile Thr His Ser
 1860 1865 1870
 Phe Val Gly Arg Pro Ser Glu Gly Ala Gln Leu Glu Asp Tyr Phe Pro
 1875 1880 1885
 Asp Ser Glu Asn Pro Glu Val Gly Gly Leu Met Ala Val Leu Ala Val
 1890 1895 1900
 Ile Gly Gly Ile Asp Gly Arg Leu Arg Leu Gly Gly Gln Val Met His
 1905 1910 1915 1920
 Asp Glu Phe Gly Glu Gly Thr Val Thr Arg Ile Thr Pro Lys Gly Lys
 1925 1930 1935
 Ile Thr Val Gln Phe Ser Asp Met Arg Thr Cys Arg Val Cys Pro Leu
 1940 1945 1950
 Asn Gln Leu Lys Pro Leu Pro Ala Val Ala Phe Asn Val Asn Asn Leu
 1955 1960 1965
 Pro Phe Thr Glu Pro Met Leu Ser Val Trp Ala Gln Leu Val Asn Leu
 1970 1975 1980
 Ala Gly Ser Lys Leu Glu Lys His Lys Ile Lys Lys Ser Thr Lys Gln
 1985 1990 1995 2000
 Ala Phe Ala Gly Gln Val Asp Leu Asp Leu Leu Arg Cys Gln Gln Leu
 2005 2010 2015
 Lys Leu Tyr Ile Leu Lys Ala Gly Arg Ala Leu Leu Ser His Gln Asp
 2020 2025 2030
 Lys Leu Arg Gln Ile Leu Ser Gln Pro Ala Val Gln Glu Thr Gly Thr
 2035 2040 2045
 Val His Thr Asp Asp Gly Ala Val Val Ser Pro Asp Leu Gly Asp Met
 2050 2055 2060
 Ser Pro Glu Gly Pro Gln Pro Pro Met Ile Leu Leu Gln Gln Leu Leu
 2065 2070 2075 2080
 Ala Ser Ala Thr Gln Pro Ser Pro Val Lys Ala Ile Phe Asp Lys Gln
 2085 2090 2095
 Glu Leu Glu Ala Ala Leu Ala Val Cys Gln Cys Leu Ala Val Glu
 2100 2105 2110
 Ser Thr His Pro Ser Ser Pro Gly Phe Glu Asp Cys Ser Ser Ser Glu
 2115 2120 2125
 Ala Thr Thr Pro Val Ala Val Gln His Ile His Pro Ala Arg Val Lys
 2130 2135 2140
 Arg Arg Lys Gln Ser Pro Val Pro Ala Leu Pro Ile Val Val Gln Leu
 2145 2150 2155 2160
 Met Glu Met Gly Phe Ser Arg Arg Asn Ile Glu Phe Ala Leu Lys Ser
 2165 2170 2175
 Leu Thr Gly Ala Ser Gly Asn Ala Ser Ser Leu Pro Gly Val Glu Ala
 2180 2185 2190
 Leu Val Gly Trp Leu Leu Asp His Ser Asp Ile Gln Val Thr Glu Leu
 2195 2200 2205
 Ser Asp Ala Asp Thr Val Ser Asp Glu Tyr Ser Asp Glu Glu Val Val
 2210 2215 2220

Glu Asp Val Asp Asp Ala Ala Tyr Ser Met Ser Thr Gly Ala Val Val
 2225 2230 2235 2240
 Thr Glu Ser Gln Thr Tyr Lys Lys Arg Ala Asp Phe Leu Ser Asn Asp
 2245 2250 2255
 Asp Tyr Ala Val Tyr Val Arg Glu Asn Ile Gln Val Gly Met Met Val
 2260 2265 2270
 Arg Cys Cys Arg Ala Tyr Glu Glu Val Cys Glu Gly Asp Val Gly Lys
 2275 2280 2285
 Val Ile Lys Leu Asp Arg Asp Gly Leu His Asp Leu Asn Val Gln Cys
 2290 2295 2300
 Asp Trp Gln Gln Lys Gly Gly Thr Tyr Trp Val Arg Tyr Ile His Val
 2305 2310 2315 2320
 Glu Leu Ile Gly Tyr Pro Pro Pro Ser Ser Ser His Ile Lys Ile
 2325 2330 2335
 Gly Asp Lys Val Arg Val Lys Ala Ser Val Thr Thr Pro Lys Tyr Lys
 2340 2345 2350
 Trp Gly Ser Val Thr His Gln Ser Val Gly Val Val Lys Ala Phe Ser
 2355 2360 2365
 Ala Asn Gly Lys Asp Ile Ile Val Asp Phe Pro Gln Gln Ser His Trp
 2370 2375 2380
 Thr Gly Leu Leu Ser Glu Met Glu Leu Val Pro Ser Ile His Pro Gly
 2385 2390 2395 2400
 Val Thr Cys Asp Gly Cys Gln Met Phe Pro Ile Asn Gly Ser Arg Phe
 2405 2410 2415
 Lys Cys Arg Asn Cys Asp Asp Phe Asp Phe Cys Glu Thr Cys Phe Lys
 2420 2425 2430
 Thr Lys Lys His Asn Thr Arg His Thr Phe Gly Arg Ile Asn Glu Pro
 2435 2440 2445
 Gly Gln Ser Ala Val Phe Cys Gly Arg Ser Gly Lys Gln Leu Lys Arg
 2450 2455 2460
 Cys His Ser Ser Gln Pro Gly Met Leu Leu Asp Ser Trp Ser Arg Met
 2465 2470 2475 2480
 Val Lys Ser Leu Asn Val Ser Ser Ser Val Asn Gln Ala Ser Arg Leu
 2485 2490 2495
 Ile Asp Gly Ser Glu Pro Cys Trp Gln Ser Ser Gly Ser Gln Gly Lys
 2500 2505 2510
 His Trp Ile Arg Leu Glu Ile Phe Pro Asp Val Leu Val His Arg Leu
 2515 2520 2525
 Lys Met Ile Val Asp Pro Ala Asp Ser Ser Tyr Met Pro Ser Leu Val
 2530 2535 2540
 Val Val Ser Gly Gly Asn Ser Leu Asn Asn Leu Ile Glu Leu Lys Thr
 2545 2550 2555 2560
 Ile Asn Ile Asn Pro Ser Asp Thr Thr Val Pro Leu Leu Asn Asp Tyr
 2565 2570 2575
 Thr Glu Tyr His Arg Tyr Ile Glu Ile Ala Ile Lys Gln Cys Arg Ser
 2580 2585 2590
 Ser Gly Ile Asp Cys Lys Ile His Gly Leu Ile Leu Leu Gly Arg Ile
 2595 2600 2605
 Arg Ala Glu Glu Glu Asp Leu Ala Ala Val Pro Phe Leu Ala Ser Asp
 2610 2615 2620
 Asn Glu Glu Glu Glu Asp Glu Lys Gly Asn Ser Gly Ser Leu Ile Arg
 2625 2630 2635 2640
 Lys Lys Ala Ala Gly Leu Glu Ser Ala Ala Thr Ile Arg Thr Lys Val
 2645 2650 2655
 Phe Val Trp Gly Leu Asn Asp Lys Asp Gln Leu Gly Gly Leu Lys Gly
 2660 2665 2670
 Ser Lys Ile Lys Val Pro Ser Phe Ser Glu Thr Leu Ser Ala Leu Asn
 2675 2680 2685
 Val Val Gln Val Ala Gly Gly Ser Lys Ser Leu Phe Ala Val Thr Val

2690 2695 2700
 Glu Gly Lys Val Tyr Ala Cys Gly Glu Ala Thr Asn Gly Arg Leu Gly
 2705 2710 2715 2720
 Leu Gly Ile Ser Ser Gly Thr Val Pro Ile Pro Arg Gln Ile Thr Ala
 2725 2730 2735
 Leu Ser Ser Tyr Val Val Lys Lys Val Ala Val His Ser Gly Gly Arg
 2740 2745 2750
 His Ala Thr Ala Leu Thr Val Asp Gly Lys Val Phe Ser Trp Gly Glu
 2755 2760 2765
 Gly Asp Asp Gly Lys Leu Gly His Phe Ser Arg Met Asn Cys Asp Lys
 2770 2775 2780
 Pro Arg Leu Ile Glu Ala Leu Lys Thr Lys Arg Ile Arg Asp Ile Ala
 2785 2790 2795 2800
 Cys Gly Ser Ser His Ser Ala Ala Leu Thr Ser Ser Gly Glu Leu Tyr
 2805 2810 2815
 Thr Trp Gly Leu Gly Glu Tyr Gly Arg Leu Gly His Gly Asp Asn Thr
 2820 2825 2830
 Thr Gln Leu Lys Pro Lys Met Val Lys Val Leu Leu Gly His Arg Val
 2835 2840 2845
 Ile Gln Val Ala Cys Gly Ser Arg Asp Ala Gln Thr Leu Ala Leu Thr
 2850 2855 2860
 Asp Glu Gly Leu Val Phe Ser Trp Gly Asp Gly Asp Phe Gly Lys Leu
 2865 2870 2875 2880
 Gly Arg Gly Gly Ser Glu Gly Cys Asn Ile Pro Gln Asn Ile Glu Arg
 2885 2890 2895
 Leu Asn Gly Gln Gly Val Cys Gln Ile Glu Cys Gly Ala Gln Phe Ser
 2900 2905 2910
 Leu Ala Leu Thr Lys Ser Gly Val Val Trp Thr Trp Gly Lys Gly Asp
 2915 2920 2925
 Tyr Phe Arg Leu Gly His Gly Ser Asp Val His Val Arg Lys Pro Gln
 2930 2935 2940
 Val Val Glu Gly Leu Arg Gly Lys Lys Ile Val His Val Ala Val Gly
 2945 2950 2955 2960
 Ala Leu His Cys Leu Ala Val Thr Asp Ser Gly Gln Val Tyr Ala Trp
 2965 2970 2975
 Gly Asp Asn Asp His Gly Gln Gln Gly Asn Gly Thr Thr Thr Val Asn
 2980 2985 2990
 Arg Lys Pro Thr Leu Val Gln Gly Leu Glu Gly Gln Lys Ile Thr Arg
 2995 3000 3005
 Val Ala Cys Gly Ser Ser His Ser Val Ala Trp Thr Thr Val Asp Val
 3010 3015 3020
 Ala Thr Pro Ser Val His Glu Pro Val Leu Phe Gln Thr Ala Arg Asp
 3025 3030 3035 3040
 Pro Leu Gly Ala Ser Tyr Leu Gly Val Pro Ser Asp Ala Asp Ser Ser
 3045 3050 3055
 Ala Ala Ser Asn Lys Ile Ser Gly Ala Ser Asn Ser Lys Pro Asn Arg
 3060 3065 3070
 Pro Ser Leu Ala Lys Ile Leu Leu Ser Leu Asp Gly Asn Leu Ala Lys
 3075 3080 3085
 Gln Gln Ala Leu Ser His Ile Leu Thr Ala Leu Gln Ile Met Tyr Ala
 3090 3095 3100
 Arg Asp Ala Val Val Gly Ala Leu Met Pro Ala Ala Met Ile Ala Pro
 3105 3110 3115 3120
 Val Glu Cys Pro Ser Phe Ser Ser Ala Ala Pro Ser Asp Ala Ser Ala
 3125 3130 3135
 Met Ala Ser Pro Met Asn Gly Glu Glu Cys Met Leu Ala Val Asp Ile
 3140 3145 3150
 Glu Asp Arg Leu Ser Pro Asn Pro Trp Gln Glu Lys Arg Glu Ile Val
 3155 3160 3165

Ser Ser Glu Asp Ala Val Thr Pro Ser Ala Val Thr Pro Ser Ala Pro
 3170 3175 3180
 Ser Ala Ser Ala Arg Pro Phe Ile Pro Val Thr Asp Asp Leu Gly Ala
 3185 3190 3195 3200
 Ala Ser Ile Ile Ala Glu Thr Met Thr Lys Thr Lys Glu Asp Val Glu
 3205 3210 3215
 Ser Gln Asn Lys Ala Ala Gly Pro Glu Pro Gln Ala Leu Asp Glu Phe
 3220 3225 3230
 Thr Ser Leu Leu Ile Ala Asp Asp Thr Arg Val Val Val Asp Leu Leu
 3235 3240 3245
 Lys Leu Ser Val Cys Ser Arg Ala Gly Asp Arg Gly Arg Asp Val Leu
 3250 3255 3260
 Ser Ala Val Leu Ser Gly Met Gly Thr Ala Tyr Pro Gln Val Ala Asp
 3265 3270 3275 3280
 Met Leu Leu Glu Leu Cys Val Thr Glu Leu Glu Asp Val Ala Thr Asp
 3285 3290 3295
 Ser Gln Ser Gly Arg Leu Ser Ser Gln Pro Val Val Val Glu Ser Ser
 3300 3305 3310
 His Pro Tyr Thr Asp Asp Thr Ser Thr Ser Gly Thr Val Lys Ile Pro
 3315 3320 3325
 Gly Ala Glu Gly Leu Arg Val Glu Phe Asp Arg Gln Cys Ser Thr Glu
 3330 3335 3340
 Arg Arg His Asp Pro Leu Thr Val Met Asp Gly Val Asn Arg Ile Val
 3345 3350 3355 3360
 Ser Val Arg Ser Gly Arg Glu Trp Ser Asp Trp Ser Ser Glu Leu Arg
 3365 3370 3375
 Ile Pro Gly Asp Glu Leu Lys Trp Lys Phe Ile Ser Asp Gly Ser Val
 3380 3385 3390
 Asn Gly Trp Gly Trp Arg Phe Thr Val Tyr Pro Ile Met Pro Ala Ala
 3395 3400 3405
 Gly Pro Lys Glu Leu Leu Ser Asp Arg Cys Val Leu Ser Cys Pro Ser
 3410 3415 3420
 Met Asp Leu Val Thr Cys Leu Leu Asp Phe Arg Leu Asn Leu Ala Ser
 3425 3430 3435 3440
 Asn Arg Ser Ile Val Pro Arg Leu Ala Ala Ser Leu Ala Ala Cys Ala
 3445 3450 3455
 Gln Leu Ser Ala Leu Ala Ala Ser His Arg Met Trp Ala Leu Gln Arg
 3460 3465 3470
 Leu Arg Lys Leu Leu Thr Thr Glu Phe Gly Gln Ser Ile Asn Ile Asn
 3475 3480 3485
 Arg Leu Leu Gly Glu Asn Asp Gly Glu Thr Arg Ala Leu Ser Phe Thr
 3490 3495 3500
 Gly Ser Ala Leu Ala Ala Leu Val Lys Gly Leu Pro Glu Ala Leu Gln
 3505 3510 3515 3520
 Arg Gln Phe Glu Tyr Glu Asp Pro Ile Val Arg Gly Gly Lys Gln Leu
 3525 3530 3535
 Leu His Ser Pro Phe Phe Lys Val Leu Val Ala Leu Ala Cys Asp Leu
 3540 3545 3550
 Glu Leu Asp Thr Leu Pro Cys Cys Ala Glu Thr His Lys Trp Ala Trp
 3555 3560 3565
 Phe Arg Arg Tyr Cys Met Ala Ser Arg Val Ala Val Ala Leu Asp Lys
 3570 3575 3580
 Arg Thr Pro Leu Pro Arg Leu Phe Leu Asp Glu Val Ala Lys Lys Ile
 3585 3590 3595 3600
 Arg Glu Leu Met Ala Asp Ser Glu Asn Met Asp Val Leu His Glu Ser
 3605 3610 3615
 His Asp Ile Phe Lys Arg Glu Gln Asp Glu Gln Leu Val Gln Trp Met
 3620 3625 3630
 Asn Arg Arg Pro Asp Asp Trp Thr Leu Ser Ala Gly Gly Ser Gly Thr

3635 3640 3645
 Ile Tyr Gly Trp Gly His Asn His Arg Gly Gln Leu Gly Gly Ile Glu
 3650 3655 3660
 Gly Ala Lys Val Lys Val Pro Thr Pro Cys Glu Ala Leu Ala Thr Leu
 3665 3670 3675 3680
 Arg Pro Val Gln Leu Ile Gly Gly Glu Gln Thr Leu Phe Ala Val Thr
 3685 3690 3695
 Ala Asp Gly Lys Leu Tyr Ala Thr Gly Tyr Gly Ala Gly Gly Arg Leu
 3700 3705 3710
 Gly Ile Gly Gly Thr Glu Ser Val Ser Thr Pro Thr Leu Leu Glu Ser
 3715 3720 3725
 Ile Gln His Val Phe Ile Lys Lys Val Ala Val Asn Ser Gly Gly Lys
 3730 3735 3740
 His Cys Leu Ala Leu Ser Ser Glu Gly Glu Val Tyr Ser Trp Gly Glu
 3745 3750 3755 3760
 Ala Glu Asp Gly Lys Leu Gly His Gly Asn Arg Ser Pro Cys Asp Arg
 3765 3770 3775
 Pro Arg Val Ile Glu Ser Leu Arg Gly Ile Glu Val Val Asp Val Ala
 3780 3785 3790
 Ala Gly Gly Ala His Ser Ala Cys Val Thr Ala Ala Gly Asp Leu Tyr
 3795 3800 3805
 Thr Trp Gly Lys Gly Arg Tyr Gly Arg Leu Gly His Ser Asp Ser Glu
 3810 3815 3820
 Asp Gln Leu Lys Pro Lys Leu Val Glu Ala Leu Gln Gly His Arg Val
 3825 3830 3835 3840
 Val Asp Ile Ala Cys Gly Ser Gly Asp Ala Gln Thr Leu Cys Leu Thr
 3845 3850 3855
 Asp Asp Asp Thr Val Trp Ser Trp Gly Asp Gly Asp Tyr Gly Lys Leu
 3860 3865 3870
 Gly Arg Gly Gly Ser Asp Gly Cys Lys Val Pro Met Lys Ile Asp Ser
 3875 3880 3885
 Leu Thr Gly Leu Gly Val Val Lys Val Glu Cys Gly Ser Gln Phe Ser
 3890 3895 3900
 Val Ala Leu Thr Lys Ser Gly Ala Val Tyr Thr Trp Gly Lys Gly Asp
 3905 3910 3915 3920
 Tyr His Arg Leu Gly His Gly Ser Asp Asp His Val Arg Arg Pro Arg
 3925 3930 3935
 Gln Val Gln Gly Leu Gln Gly Lys Lys Val Ile Ala Ile Ala Thr Gly
 3940 3945 3950
 Ser Leu His Cys Val Cys Cys Thr Glu Asp Gly Glu Val Tyr Thr Trp
 3955 3960 3965
 Gly Asp Asn Asp Glu Gly Gln Leu Gly Asp Gly Thr Thr Asn Ala Ile
 3970 3975 3980
 Gln Arg Pro Arg Leu Val Ala Ala Leu Gln Gly Lys Lys Val Asn Arg
 3985 3990 3995 4000
 Val Ala Cys Gly Ser Ala His Thr Leu Ala Trp Ser Thr Ser Lys Pro
 4005 4010 4015
 Ala Ser Ala Gly Lys Leu Pro Ala Gln Val Pro Met Glu Tyr Asn His
 4020 4025 4030
 Leu Gln Glu Ile Pro Ile Ile Ala Leu Arg Asn Arg Leu Leu Leu
 4035 4040 4045
 His His Leu Ser Glu Leu Phe Cys Pro Cys Ile Pro Met Phe Asp Leu
 4050 4055 4060
 Glu Gly Ser Leu Asp Glu Thr Gly Leu Gly Pro Ser Val Gly Phe Asp
 4065 4070 4075 4080
 Thr Leu Arg Gly Ile Leu Ile Ser Gln Gly Lys Glu Ala Ala Phe Arg
 4085 4090 4095
 Lys Val Val Gln Ala Thr Met Val Arg Asp Arg Gln His Gly Pro Val
 4100 4105 4110

Val Glu Leu Asn Arg Ile Gln Val Lys Arg Ser Arg Ser Lys Gly Gly
 4115 4120 4125
 Leu Ala Gly Pro Asp Gly Thr Lys Ser Val Phe Gly Gln Met Cys Ala
 4130 4135 4140
 Lys Met Ser Ser Phe Gly Pro Asp Ser Leu Leu Leu Pro His Arg Val
 4145 4150 4155 4160
 Trp Lys Val Lys Phe Val Gly Glu Ser Val Asp Asp Cys Gly Gly Gly
 4165 4170 4175
 Tyr Ser Glu Ser Ile Ala Glu Ile Cys Glu Glu Leu Gln Asn Gly Leu
 4180 4185 4190
 Thr Pro Leu Leu Ile Val Thr Pro Asn Gly Arg Asp Glu Ser Gly Ala
 4195 4200 4205
 Asn Arg Asp Cys Tyr Leu Leu Ser Pro Ala Ala Arg Ala Pro Val His
 4210 4215 4220
 Ser Ser Met Phe Arg Phe Leu Gly Val Leu Leu Gly Ile Ala Ile Arg
 4225 4230 4235 4240
 Thr Gly Ser Pro Leu Ser Leu Asn Pro Cys Arg Ala Leu Ser Gly Ser
 4245 4250 4255
 Ser Trp Leu Gly *
 4260

<210> 1356
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 1356
 Met Ser Lys Val Lys Pro Leu His Gly Ala Pro Ala Pro Leu Leu Val
 1 5 10 15
 Ser Leu Cys Leu Leu Ser Trp Cys Gly Leu Pro Gly Val Ile Val His
 20 25 30
 Val Thr Tyr Val Ser Pro Arg His Leu Ser Asn Thr Arg Ser Gly Leu
 35 40 45
 Glu Ser Ile His Gly Cys Asp Pro Met His Gly Ser Pro Val Gly *
 50 55 60 63

<210> 1357
 <211> 111
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(111)
 <223> Xaa = any amino acid or nothing

<400> 1357
 Met Ile Phe Asn Lys Ala Ala Asp Thr Leu Gly Asp Val Trp Ile Leu
 1 5 10 15
 Leu Ala Thr Leu Lys Val Leu Ser Leu Leu Trp Leu Leu Tyr Tyr Val
 20 25 30
 Ala Ser Thr Thr Arg Gln Pro His Ala Val Leu Tyr Gln Asp Pro His
 35 40 45
 Ala Gly Pro Leu Trp Val Arg Ser Ser Leu Val Leu Phe Gly Ser Cys

```

      50              55              60
Thr Phe Cys Leu Asn Ile Phe Arg Val Gly Tyr Asp Val Ser His Ile
 65              70              75              80
Arg Cys Lys Ser Gln Leu Asp Leu Val Phe Pro Val Ile Glu Met Val
      85              90              95
Phe Ile Gly Val Gln Thr Cys Val Leu Trp Lys His Cys Arg Xaa
      100              105              110 111

```

<210> 1358
 <211> 47
 <212> PRT
 <213> Homo sapiens

```

      <400> 1358
Met Ala Leu Leu Ile Ser Thr Cys Ile Asn Lys Ala Val Leu Arg Phe
 1              5              10              15
Thr Leu Ser Ser Met Asn Asn Lys Ile Ile Leu Ser Trp Tyr Ser Phe
      20              25              30
Asn Val Ile Leu Ile Phe His Glu Asn Val Val Tyr Tyr Ile *
      35              40              45 46

```

<210> 1359
 <211> 73
 <212> PRT
 <213> Homo sapiens

```

      <400> 1359
Met Phe Ser Pro Cys Gly Pro Ala Ser Leu Gly Leu Leu Phe Val Leu
 1              5              10              15
Cys Thr His Ser Gln Ala Leu Ala Phe Phe Trp Gly Pro Ser Ser Leu
      20              25              30
Ile Gly Ala Ser Gly Phe Leu Leu Gln Arg Thr Ser Leu Leu Arg His
      35              40              45
Val Phe Leu Gly Leu Val Tyr Ala Cys Trp Ala His Trp Leu Tyr Cys
      50              55              60
Ser Ser Arg Pro Val Thr Lys Glu *
      65              70              72

```

<210> 1360
 <211> 57
 <212> PRT
 <213> Homo sapiens

```

      <400> 1360
Met Lys Thr Gly Ser Leu Leu Leu Thr Leu Trp Phe Ser Gln Thr Phe
 1              5              10              15
Ser Phe Asn Leu Phe Phe Ala Pro Pro His Ser Leu Leu Gln Ser Ser
      20              25              30
Ile Phe Phe Ser Val Ser Ser Ile Thr Thr Val His Pro Ile Leu Val
      35              40              45

```

Phe Phe Phe Ala Phe Phe Arg Thr *
 50 55 56

<210> 1361
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1361
 Met Phe Val Leu Phe Leu Ile Leu Val Leu Arg Asn His Phe Leu Val
 1 5 10 15
 Thr Ile Lys Tyr Gly Val Gly Cys Gly Phe Ile Ile Ser Val Cys Leu
 20 25 30
 Arg Ala Lys His Phe Asn Phe Asp Glu Ala Gln Phe Val Ser Phe Phe
 35 40 45
 Leu Cys Asp Ser Cys Phe Cys Leu Leu Arg Asn Leu Pro Thr Gln Arg
 50 55 60
 Leu Gln Arg Phe Phe Phe Cys Trp Phe Phe Leu Ile *
 65 70 75 76

<210> 1362
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 1362
 Met Gln Asn Arg Thr Gly Leu Ile Leu Cys Ala Leu Ala Leu Leu Met
 1 5 10 15
 Gly Phe Leu Met Val Cys Leu Gly Ala Phe Phe Ile Ser Trp Gly Ser
 20 25 30
 Ile Phe Asp Cys Gln Gly Ser Leu Ile Ala Ala Tyr Leu Leu Leu Pro
 35 40 45
 Leu Gly Phe Val Ile Leu Leu Ser Gly Ile Phe Trp Ser Asn Tyr Arg
 50 55 60
 Gln Val Thr Glu Ser Lys Gly Val Leu Arg His Met Leu Arg Gln His
 65 70 75 80
 Leu Ala His Gly Ala Leu Pro Val Ala Thr Val Asp Arg Ala Ala Leu
 85 90 95
 Leu Lys Ile Met Cys Lys Gln Leu Leu *
 100 105

<210> 1363
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1363
 Met Ala Trp Lys Pro Leu Gly Arg Gln Ala Val Leu Arg Glu Thr Pro
 1 5 10 15
 Leu Ala Thr Leu Cys Ile Asp Arg Arg Gln Val Ser Ser Ser Leu Val

```

      20      25      30
Gln Glu Gly Phe His Ser Lys Ser Cys His Cys Leu Gly Asp Ser Phe
      35      40      45
Arg Glu Lys Asn Gln Val Val Gly *
      50      55 56

```

<210> 1364
 <211> 75
 <212> PRT
 <213> Homo sapiens

```

      <400> 1364
Met Cys Leu Leu Lys Ala Ala Pro Phe Phe Phe Tyr Val Pro Gln
  1      5      10      15
Val Gly Lys Gly Asn Pro Arg Pro Pro Arg Gly Cys Ser Ala Phe His
      20      25      30
Pro Pro Thr His Leu Arg Pro Gly Ser Cys Ser Val Ala Gln Ala Gly
      35      40      45
Val Gln Trp Arg Ser Leu Gly Ser Ile Ala Ala Ser Val Ser Trp Val
      50      55      60
Gln Ala Ile Leu Leu Pro Gln Pro Leu Glu *
      65      70      74

```

<210> 1365
 <211> 58
 <212> PRT
 <213> Homo sapiens

```

      <400> 1365
Met Lys Leu Gln Val Phe Ala Val Asn Ile Thr Ala Leu Lys Ala Ala
  1      5      10      15
Arg Leu Glu Leu Phe Val Leu Pro Gly Gly Phe Ile Val Phe Leu Ala
      20      25      30
Ser Glu Leu Lys Leu Gln Thr Ser Leu Glu Ser Val Ala Pro His Lys
      35      40      45
Asp Ser Met Ser Leu Lys Ser Glu His *
      50      55      57

```

<210> 1366
 <211> 58
 <212> PRT
 <213> Homo sapiens

```

      <400> 1366
Met His Cys Ser Phe Ile Ser Ala Phe Leu Leu Pro Val Phe Leu Ser
  1      5      10      15
Leu Thr Val Ser Ala Ser Ile Phe Val Ser Leu His Ser Phe Pro Leu
      20      25      30
Ser Leu Ser Tyr Phe Ser Phe Leu Gly Ser Phe Phe Leu Ser Val Cys
      35      40      45

```

Leu Asp Leu Tyr Ser Ser Leu Phe Phe *
 50 55 57

<210> 1367
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1367
 Met Met Gly Arg Ile Phe Ala Ala Leu Ser Leu Ile Lys Leu Met Met
 1 5 10 15
 Tyr Ser Leu Phe Pro Val Ile Glu Ser Ser Leu Cys His Leu Glu Val
 20 25 30
 Trp Ala Trp Arg His Ile Trp Pro Thr Ala Gly Arg Gly Val Pro *
 35 40 45 47

<210> 1368
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 1368
 Met Gly Arg Arg Lys Ser Phe Phe Phe Leu Phe Leu Glu Cys Arg Gln
 1 5 10 15
 Lys Gly Leu His Ile Pro Leu Cys Thr Cys Ser His Ala Pro Arg Pro
 20 25 30
 Pro Leu Ala Ala Pro Ser Ala Leu Ile Leu Pro Pro Glu Ile Ser His
 35 40 45
 Thr Ser Arg Gly Ile Leu Leu Ser His Gly Leu Phe Pro Thr Ala Thr
 50 55 60
 Met Pro Leu Phe Phe Pro Ser His Ala Ser His Ser Pro Thr Val Thr
 65 70 75 80
 Met Pro Leu Phe Phe Pro Ser His Ala Ser His Ser Pro Ser Thr *
 85 90 95

<210> 1369
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1369
 Met Trp Asp His Phe Ile Leu Ser Arg Val Leu Phe Cys Leu Phe Val
 1 5 10 15
 Phe His Ser Arg Val Leu Lys Asp His Met Ala Ser Asn Ala Tyr Lys
 20 25 30
 Ser Ala Leu Phe Phe Thr Val Arg Tyr Leu Glu Thr Lys Gln Phe Leu
 35 40 45
 Leu Arg Cys Cys Cys Trp Pro Asp Ala Val Ala His Ala Cys Asn Thr
 50 55 60
 Ser Thr Leu Arg Gly Gln Gly Arg His Ile Thr *

65

70

75

<210> 1370
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 1370
 Met Cys Ser Cys Leu His Thr Leu Gln Arg Arg Phe Leu His Phe Val
 1 5 10 15
 Ser Ile Ala Leu Ser Lys Ile Trp Gln Asn Asn Ala Phe His Leu Gln
 20 25 30
 Val Glu Val Ser Trp Leu Ser Thr Phe Val Asp Lys Val Ile Val Met
 35 40 45
 Arg Leu Ile Ser Ser Lys His Phe Thr Asp Thr Met Asn Asp Arg Val
 50 55 60
 His Ser Phe Leu Asn Asp Ile Gly Phe Val Cys Leu Leu Ser *
 65 70 75 78

<210> 1371
 <211> 227
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(227)
 <223> Xaa = any amino acid or nothing

<400> 1371
 Met Leu Tyr Phe Gln Leu Val Ile Met Ala Gly Thr Val Leu Leu Ala
 1 5 10 15
 Tyr Tyr Phe Glu Cys Thr Asp Thr Phe Gln Val His Ile Gln Gly Phe
 20 25 30
 Phe Cys Gln Asp Gly Asp Leu Met Lys Pro Tyr Pro Gly Thr Glu Glu
 35 40 45
 Glu Ser Phe Ile Thr Pro Leu Val Leu Tyr Cys Val Leu Ala Ala Thr
 50 55 60
 Pro Thr Ala Ile Ile Phe Ile Gly Glu Ile Ser Met Tyr Phe Ile Lys
 65 70 75 80
 Ser Thr Arg Glu Ser Leu Ile Ala Gln Glu Lys Thr Ile Leu Thr Gly
 85 90 95
 Glu Cys Cys Tyr Leu Asn Pro Leu Leu Arg Arg Ile Ile Arg Phe Thr
 100 105 110
 Gly Val Phe Ala Phe Gly Leu Phe Ala Thr Asp Ile Phe Val Asn Ala
 115 120 125
 Gly Gln Val Val Thr Gly His Leu Thr Pro Tyr Phe Leu Thr Val Cys
 130 135 140
 Lys Pro Asn Tyr Thr Ser Ala Asp Cys Gln Ala His His Gln Phe Ile
 145 150 155 160
 Asn Asn Gly Asn Ile Cys Thr Gly Asp Leu Gly Ser Asp Arg Lys Gly
 165 170 175
 Ser Glu Ile Leu Ser Leu Gln Thr Arg Cys Ser Glu His Leu Leu Arg
 180 185 190

Leu Ile Trp Pro Arg Cys Ile Phe Thr Arg His Asn Gln Gly Arg Gly
 195 200 205
 Gly Ser Ser Met Gly Pro Ser Arg Trp Leu Cys Leu Gly Thr Phe Leu
 210 215 220
 His Xaa Leu
 225 227

<210> 1372
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 1372
 Met Phe Leu Ser Leu Ser Leu Thr Leu Cys Leu Cys Phe Ser Phe Phe
 1 5 10 15
 Cys Leu Tyr Leu Ser Leu Ser Leu Tyr Leu Arg Ser Phe Phe Cys Leu
 20 25 30
 Pro Phe His Val Ser Val Phe Leu Cys Leu Phe Pro Ser Val Leu Phe
 35 40 45
 Leu Ser Val Ala Leu Gly Ser Pro Glu Asn His Ile Ser Trp Arg Lys
 50 55 60
 Val Gly Glu Glu Leu Lys Leu Ala Ser His Arg Asn Phe Cys Ser Leu
 65 70 75 80
 Ile Gln Met Met Arg Ser Asn Lys Pro Ser Pro Ser Arg Gln Arg Gly
 85 90 95
 Trp Ala *
 98

<210> 1373
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 1373
 Met Leu His Thr Pro Gln Thr Cys Arg Pro Gly Leu Cys Val Leu Ala
 1 5 10 15
 Ser Arg Pro Val Leu Tyr Thr Leu Cys Leu Leu Ile Pro Val Leu Cys
 20 25 30
 Gly Asp Thr Phe Trp Ala Ser Trp Ser Leu Leu Thr Lys Ala Thr Pro
 35 40 45
 Ser Ser Leu Leu Cys Leu Ser Asp Lys Ser Ile Pro Ser Leu Ile Ser
 50 55 60
 Lys Gly Asp Ser *
 65 68

<210> 1374
 <211> 296
 <212> PRT
 <213> Homo sapiens

<400> 1374
 Met Arg Ser Lys Ile Met Ile His Ile His Ile Phe Leu Leu Ala Ser
 1 5 10 15
 Phe Arg Phe Lys Glu His Val Gln Asn Asn Leu Pro Arg Asp Leu Leu
 20 25 30
 Thr Gly Glu Gln Phe Ile Gln Leu Arg Arg Glu Leu Ala Ser Val Asn
 35 40 45
 Gly His Ser Gly Asp Asp Gly Pro Pro Gly Asp Asp Leu Pro Ser Gly
 50 55 60
 Ile Glu Asp Ile Thr Asp Pro Ala Lys Leu Ile Thr Glu Ile Glu Asn
 65 70 75 80
 Met Arg His Arg Ile Ile Glu Ile His Gln Glu Met Phe Asn Tyr Asn
 85 90 95
 Glu His Glu Val Ser Lys Arg Trp Thr Phe Glu Glu Gly Ile Lys Arg
 100 105 110
 Pro Tyr Phe His Val Lys Pro Leu Glu Lys Ala Gln Leu Lys Asn Trp
 115 120 125
 Lys Glu Tyr Leu Glu Phe Glu Ile Glu Asn Gly Thr His Glu Arg Val
 130 135 140
 Val Val Leu Phe Glu Arg Cys Val Ile Ser Cys Ala Leu Tyr Glu Glu
 145 150 155 160
 Phe Trp Ile Lys Tyr Ala Lys Tyr Met Glu Asn His Ser Ile Glu Gly
 165 170 175
 Val Arg His Val Phe Ser Arg Ala Cys Thr Ile His Leu Pro Lys Lys
 180 185 190
 Pro Met Val His Met Leu Trp Ala Ala Phe Glu Glu Gln Gln Gly Asn
 195 200 205
 Ile Asn Glu Ala Arg Asn Ile Leu Lys Thr Phe Glu Glu Cys Val Leu
 210 215 220
 Gly Leu Ala Met Val Arg Leu Arg Arg Val Ser Leu Glu Arg Arg His
 225 230 235 240
 Gly Asn Leu Glu Glu Ala Glu His Leu Leu Gln Asp Ala Ile Lys Asn
 245 250 255
 Ala Lys Ser Asn Asn Glu Ser Ser Phe Tyr Ala Val Lys Leu Ala Arg
 260 265 270
 His Leu Phe Lys Ile Gln Lys Asn Leu Pro Lys Ser Arg Lys Val Leu
 275 280 285
 Leu Glu Ala Ile Glu Arg Asp Lys
 290 295 296

<210> 1375
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 1375
 Met Cys Leu Leu Lys Ala Ala Pro Phe Phe Phe Phe Tyr Val Pro Gln
 1 5 10 15
 Val Gly Lys Gly Asn Pro Arg Pro Pro Arg Gly Cys Ser Ala Phe His
 20 25 30
 Pro Pro Thr His Leu Arg Pro Gly Ser Cys Ser Val Ala Gln Ala Gly
 35 40 45
 Val Gln Trp Arg Ser Leu Gly Ser Ile Ala Ala Ser Val Ser Trp Val
 50 55 60
 Gln Ala Ile Leu Leu Pro Gln Pro Leu Glu *
 65 70 74

<210> 1376
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1376
 Met Cys Tyr Glu Trp Val Ile Thr Thr Val Gly Ser Trp Ala Leu Leu
 1 5 10 15
 Cys Gln Arg Thr Leu Trp Lys Pro His Arg Thr Tyr Gln Lys Leu Thr
 20 25 30
 Leu Asn Ser Cys Pro Thr Pro Ile Val Glu Gly Gly Leu Glu Ser Phe
 35 40 45
 Pro Ser Pro Asn Phe Pro Ser Cys Ile Ser Trp Ser *
 50 55 60

<210> 1377
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 1377
 Met Trp Val Trp Val Thr Ala Ala His Leu Leu Cys Ser Leu Ala Ala
 1 5 10 15
 Ser Phe Val Lys Lys Lys Ser Leu Gly Lys Leu Arg Val Asp Val Cys
 20 25 30
 Arg Ser Pro Pro Pro Glu Gly Ser Arg Thr Gln Thr Ser Ser Ser Leu
 35 40 45
 Phe Tyr Arg Gly Gly Asn Gly Ala Ser Tyr Ala Asn Tyr Ile Leu His
 50 55 60
 His Thr Met Ala Leu Glu Gly Gln Arg Ser His Trp Ala Pro Cys Val
 65 70 75 80
 Ser Cys Pro Ala Gln Gly Leu Ala Leu Arg Arg Gly Cys Thr Thr Phe
 85 90 95
 Leu His Lys Asn Lys Gly Gly Thr Glu Ala Val Thr Val *
 100 105 109

<210> 1378
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1378
 Met Phe Ala Leu Gln Lys Met Arg Leu Cys Val Leu Trp Arg Val Leu
 1 5 10 15
 Glu Glu Gly Gly Ile Thr Arg Phe Gly Asp Ser His Ser Asp Ser Leu
 20 25 30
 Leu Phe Ser Val Thr Phe Arg Ile His Arg Asp Met Phe Cys *
 35 40 45 46

<210> 1379
 <211> 140
 <212> PRT
 <213> Homo sapiens

<400> 1379
 Met Arg His Pro Ser Pro Trp Pro Phe Leu Phe Phe Cys Phe Val Pro
 1 5 10 15
 Ala Thr Leu Arg Ser Phe Pro Ser Gly Leu Val Trp Pro Gly Cys Trp
 20 25 30
 Trp Glu Pro Arg Ala Ser Pro Ser Ser Leu Ala Pro Gly Met Lys Ser
 35 40 45
 Gln Leu Trp Ala Ala Ala Trp Arg Pro Gly Thr Ser Leu Gln Gly Met
 50 55 60
 Ala Gly Ile Leu Arg Gln Ala Ala Glu Ala Gly Pro Ala Gly Val Ala
 65 70 75 80
 Leu Ile Leu Ile Lys Gly Thr Gly Asn Glu Glu Pro Leu Gly Pro Leu
 85 90 95
 Pro Ser Arg Cys Leu Cys Pro Pro Pro Glu Glu Pro Arg Phe His Trp
 100 105 110
 Ala Leu Gly Lys Glu Pro Thr Gly Pro Gly Arg Pro Gln Pro Val Gln
 115 120 125
 His His Ile Glu Gly Pro His Pro Val Gly Phe Gly
 130 135 140

<210> 1380
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1380
 Met Gln Glu Pro Leu Thr Phe Leu Gln Leu Leu Arg Trp Gln Leu Phe
 1 5 10 15
 Pro Leu Pro Asp Ser Pro Thr Phe Ser Ala Phe Ile Leu Val Gly Leu
 20 25 30
 Cys Arg Met Leu Phe Ala Gly Arg Ile Ile Ser Gly Leu Thr Arg Val
 35 40 45
 Ile *
 49

<210> 1381
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 1381
 Met Leu Arg Leu Asp Ile Ile Asn Ser Leu Val Thr Thr Val Phe Met
 1 5 10 15
 Leu Ile Val Ser Val Leu Ala Leu Ile Pro Glu Thr Thr Thr Leu Thr
 20 25 30

Val Gly Gly Gly Val Phe Ala Leu Val Thr Ala Val Cys Cys Leu Ala
 35 40 45
 Asp Gly Ala Leu Ile Tyr Arg Lys Leu Leu Phe Asn Pro Ser Gly Pro
 50 55 60
 Tyr Gln Lys Lys Pro Val His Glu Lys Lys Glu Val Leu *
 65 70 75 77

<210> 1382
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1382
 Met Leu Thr Thr Leu Leu Leu Leu His Lys Arg Ile Phe Arg Gly
 1 5 10 15
 Asn Phe His Ile Leu His Phe His Ile Cys Ile Gln Ile Lys Lys Gln
 20 25 30
 Ile Pro Ile Leu Glu Asn Asp Leu Phe Lys Met Tyr Thr Val Ser Asn
 35 40 45
 Lys Ala Lys Thr Arg Thr Trp Ser *
 50 55 56

<210> 1383
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 1383
 Met Val Cys Arg Leu Pro Cys Thr Leu Leu Pro Trp Pro Leu Lys His
 1 5 10 15
 Lys Gln Gly Ala Leu Leu Tyr Ile Cys Pro Ala Ser Leu Pro Ala Phe
 20 25 30
 Asn Pro Arg Asn Leu Ser Val Tyr Leu Leu Phe Ser Ala Ser Glu Ser
 35 40 45
 Leu Pro Leu Lys Ser Glu Gln Ala Arg Pro Gly Gly Ser Arg Leu *
 50 55 60 63

<210> 1384
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 1384
 Met Leu Ser Phe Val Pro Leu Leu Ser Ser Trp Leu Gly Thr Trp Ile
 1 5 10 15
 Thr Asp Arg Gly Ala Ala Gly Ser Cys Gln Ala Glu Ala Pro Arg Leu
 20 25 30
 Ala Gly Glu Thr Ala Gly Gln Arg Val Trp Glu Arg Gly Met Gln Arg
 35 40 45
 Ala Ala Ala Val Gly Lys Ile Leu Asp Pro Lys Gly His Thr Ala Ser

50
Pro His *
65 66

55

60

<210> 1385
<211> 50
<212> PRT
<213> Homo sapiens

<400> 1385
Met Leu Val Leu Phe Val Ala Thr Trp Ser Asp Leu Gly Leu Cys Lys
1 5 10 15
Lys Arg Pro Lys Pro Gly Gly Trp Asn Thr Gly Gly Cys Arg Tyr Pro
20 25 30
Gly Leu Ala Cys Pro Leu Gly Arg Pro Pro Gly Gln Trp Gly Ala Thr
35 40 45
Val *
49

<210> 1386
<211> 123
<212> PRT
<213> Homo sapiens

<400> 1386
Met Lys Trp Val Thr Phe Ile Ser Leu Leu Phe Leu Phe Ser Ser Ala
1 5 10 15
Tyr Ser Arg Gly Pro Lys Ala Glu Phe Ala Glu Val Ser Lys Leu Val
20 25 30
Thr Asp Leu Thr Lys Val His Thr Glu Cys Cys His Gly Asp Leu Leu
35 40 45
Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Ile Cys Glu Asn
50 55 60
Gln Asp Ser Ile Ser Ser Lys Leu Lys Glu Cys Cys Glu Lys Pro Leu
65 70 75 80
Leu Glu Lys Ser His Cys Ile Ala Glu Val Glu Asn Asp Glu Met Pro
85 90 95
Ala Asp Leu Pro Ser Leu Ala Ala Asp Phe Val Glu Ser Lys Asp Val
100 105 110
Cys Lys Asn Tyr Ala Glu Ala Lys Asp Val Phe
115 120 123

<210> 1387
<211> 65
<212> PRT
<213> Homo sapiens

<400> 1387
Met Pro Arg Leu Phe Ser Pro Leu Ile Leu Leu His Thr Leu Ser Leu
1 5 10 15

```

Lys Ser His Glu Thr Phe Gln Trp Ser Gln Phe Leu Tyr Gln Asn Thr
      20      25      30
Arg Asp Ala Cys Phe Thr Trp Thr Tyr Ile Phe Pro Arg Ile Thr Trp
      35      40      45
Ile Asn Glu Trp Cys Cys Phe Pro Val Val Gly Glu Lys Leu Gly Thr
      50      55      60      64

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<210> 1388
 <211> 56
 <212> PRT
 <213> Homo sapiens

```

<400> 1388
Met Gly Leu Leu Asn Lys Tyr Ala Ser Val Ile Ile Tyr Leu Tyr Phe
  1      5      10      15
Ser Leu Val Lys Ser Glu Ser Leu Phe His Leu Met Tyr Leu Pro Ser
      20      25      30
Leu Phe Ile Gln Phe Phe Leu Gly Ile Phe Ser Leu Lys Thr His Cys
      35      40      45
Cys Thr Ser Lys Phe Asp Ser *
      50      55

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<210> 1389
 <211> 76
 <212> PRT
 <213> Homo sapiens

```

<400> 1389
Met Arg Arg Arg Ala Leu Lys His Trp Val Ala Leu Cys Leu Thr Trp
  1      5      10      15
Thr Ala Gly Glu Ser Thr Gly Pro Trp Pro Ser Pro Glu Pro Ser Val
      20      25      30
Arg Ala Lys Glu Ala Asp Pro Ser Gly Arg Arg Ser Leu Gly Ser Pro
      35      40      45
Gly Leu Glu Cys Gly Pro Arg Leu Thr Arg Gly Ser Gly Arg Gln Cys
      50      55      60
Asp Gly Pro Arg Gly Ile Cys His Ala Leu Gly *
      65      70      75

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<210> 1390
 <211> 149
 <212> PRT
 <213> Homo sapiens

```

<400> 1390
Met Ala Ala Ser Pro Ala Arg Pro Ala Val Leu Ala Leu Thr Gly Leu
  1      5      10      15
Ala Leu Leu Leu Leu Cys Trp Gly Pro Gly Gly Ile Ser Gly Asn

```

```

      20      25      30
Lys Leu Lys Leu Met Leu Gln Lys Arg Glu Ala Pro Val Pro Thr Lys
  35      40      45
Thr Lys Val Ala Val Asp Glu Asn Lys Ala Lys Glu Phe Leu Gly Ser
  50      55      60
Leu Lys Arg Gln Lys Arg Gln Leu Trp Asp Arg Thr Arg Pro Glu Val
  65      70      75      80
Gln Gln Trp Tyr Gln Gln Phe Leu Tyr Met Gly Phe Asp Glu Ala Lys
      85      90      95
Phe Glu Asp Asp Ile Thr Tyr Trp Leu Asn Arg Asp Arg Asn Gly His
  100      105      110
Glu Tyr Tyr Gly Asp Tyr Tyr Gln Arg His Tyr Asp Glu Asp Ser Ala
  115      120      125
Ile Gly Pro Arg Ser Pro Tyr Gly Phe Arg His Gly Ala Ser Val Asn
  130      135      140
Tyr Asp Asp Tyr *
145      148

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<210> 1391
<211> 125
<212> PRT
<213> Homo sapiens

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<400> 1391
Met Val Met Gly Trp His Trp Pro Gln Gly Leu Gly Leu Ser Leu Ser
  1      5      10      15
Leu Cys Pro Ser Asp Leu Asp Gly Trp Val Ser Arg Glu Val Pro Leu
      20      25      30
Leu Asp Arg Pro Gln Ala Leu Pro Pro Cys Val Gln Ile Leu Ser Ala
      35      40      45
Pro Ala Ser Thr Ser Cys Pro Ser Ala Leu Ser Pro Trp His Asp Pro
  50      55      60
Gly Leu Pro Val Thr Ser Gln Asn His Phe Ala Trp Phe Pro Leu Gly
  65      70      75      80
Ser Lys Ala Cys Leu Gly Pro Ser Ile Asp Arg Glu Ala Val Lys Glu
      85      90      95
Ile Asn Ala Glu Gly Val Arg Arg Gln Thr Gln Gly Pro Ile Lys
      100      105      110
Val Arg Lys Gln Ala Gly Cys Gly Gly Ser Cys Leu *
      115      120      124

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<210> 1392
<211> 56
<212> PRT
<213> Homo sapiens

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```

<400> 1392
Met Ile Ile Gln Ile Cys Thr Ile Ser Arg Ile Glu Phe Ile Cys Leu
  1      5      10      15
Cys Val Cys Val Phe Phe Arg Val Ile Trp Leu Pro Val Glu Phe Tyr
      20      25      30
Leu Glu Thr Lys Ile Leu Lys Val Val Phe Val Ile Val Phe Val Pro
      35      40      45

```

Ile Ile Leu Pro Leu His Pro *
 50 55

<210> 1393
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 1393
 Met Glu Ala Trp Lys Ala Leu Ile Gly Leu Phe Pro Leu Arg Ser Ser
 1 5 10 15
 Ala Ser Pro Phe Thr Tyr His Cys Trp Glu Pro Ala Gln Pro Ala His
 20 25 30
 Gln Glu Phe His Ser Thr Ile Ala Leu Arg Gly Arg Gly Gly Lys Pro
 35 40 45
 Gln Glu Glu Ser Ser Pro *
 50 54

<210> 1394
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 1394
 Met Ser Leu Asn Pro Glu Phe Leu Trp Leu Lys Trp Phe Ser Leu Leu
 1 5 10 15
 Leu Arg Gly Arg Arg Asn Ser Cys Leu Ile Ala Leu Lys Gly Tyr His
 20 25 30
 Ser Val Met Ile Phe His Leu Pro Leu Ile Pro Ser Ser Val Thr Ser
 35 40 45
 Cys His *
 50

<210> 1395
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 1395
 Met Pro Cys Phe Met Pro Asn Pro Gly Ala Val Leu Gly Leu Pro Pro
 1 5 10 15
 Trp Leu Leu Ser Thr Gln Arg Leu Thr His Thr Arg Ala Tyr Leu Asn
 20 25 30
 Trp Leu Ala Ser Asp Arg Trp Met Arg Arg His Trp Arg Thr Gly Glu
 35 40 45
 Ser Gln Val Glu Arg Ser Ser Arg Pro Trp Trp Glu Thr Gln His Leu
 50 55 60
 Ser Pro Ala Ser Leu Gly Arg Arg Pro Ala Pro Gly Leu Gln Glu His
 65 70 75 80
 Phe Leu Asp Thr Asp Gly Lys Val Ala Asp Ser Gly Leu Gln Met Gly

85 90 95
 Phe Gly Leu Leu Ser Leu Pro Ser Ile
 100 105

<210> 1396
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1396
 Met Leu Cys Asn Leu Ala Leu Lys Leu Leu Asn Cys Val Ser Ala Trp
 1 5 10 15
 Asn Met Asn Ile Arg Leu Lys Cys Leu Leu Lys Pro Lys Asn Val Ser
 20 25 30
 Lys Val Cys Ser Arg Gly Leu Tyr Phe Ile Tyr Val Met Asp Ser Leu
 35 40 45 48
 *

<210> 1397
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 1397
 Met Leu Ser Trp Val Phe Pro Gly Ser Val Phe Gly Leu Cys Leu Ser
 1 5 10 15
 Val Trp Val Phe Trp His Gln Ala Ser Leu Gly Arg Ala Ser Gly Cys
 20 25 30
 Ala Pro Ala Leu Arg Val Gly Leu Ile Pro Gly Cys Arg Gly Leu Arg
 35 40 45
 Ala Glu Leu Phe His Leu Glu Asp Lys Asp Gly Ser Ser Gly Leu Gly
 50 55 60
 Gly Gly Gly Gly Ala Gly His Asp Leu Ile Leu Arg Arg Ala Trp Cys
 65 70 75 80
 Trp Gly Leu Thr Asp Asp Gly Glu Ala Arg Val Gln Ala Leu Gly Met
 85 90 95
 Thr Pro Gly Ile Ala Phe Ser *
 100 103

<210> 1398
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 1398
 Met Lys Pro Val Trp Val Ala Thr Leu Leu Trp Met Leu Leu Leu Val
 1 5 10 15
 Pro Arg Leu Gly Ala Ala Arg Lys Gly Ser Pro Glu Glu Ala Ser Phe
 20 25 30

Tyr Tyr Gly Thr Phe Pro Leu Gly Gly His His Ser Ala Glu Gly Thr
 35 40 45
 Ala Arg Gln Pro Leu Pro Ile Leu Pro Val Leu Ala Pro Ala Pro Ala
 50 55 60
 His Arg His Pro Ser Arg Ala Gly Glu Gln Glu Gly Asn Arg Ile Leu
 65 70 75 80
 Gln *
 81

<210> 1399
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1399
 Met Gly Ala Val Leu Leu Val Cys Leu Gln Thr Ser Ile Ala Ala Arg
 1 5 10 15
 Asp Asp Leu Lys Asp Ala Val Asp Ser Gly Leu Leu Leu Ala Asn Ser
 20 25 30
 Leu Ser His Phe Val Pro Leu Val Val Arg Asn Tyr Leu Val His Cys
 35 40 45
 Asn Leu Leu Gln Thr Leu Lys Phe Leu Leu Gly Asn Cys Thr Ala Gly
 50 55 60
 Lys Ala Ser *
 65 67

<210> 1400
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1400
 Met Ala Val Ala Phe Val Leu Ser Leu Gly Val Ala Ala Leu Tyr Lys
 1 5 10 15
 Phe Arg Val Ala Asp Gln Arg Lys Lys Ala Tyr Ala Asp Phe Tyr Arg
 20 25 30
 Asn Tyr Asp Val Met Lys Asp Phe Glu Glu Met Arg Lys Ala Gly Ile
 35 40 45
 Phe Gln Ser Val Lys *
 50 53

<210> 1401
 <211> 232
 <212> PRT
 <213> Homo sapiens

<400> 1401
 Met Leu Phe Ala Phe Ile Ser Leu Leu Val Met Leu Pro Thr Trp Trp
 1 5 10 15
 Ile Val Ser Ser Trp Leu Val Trp Gly Val Ile Leu Phe Val Tyr Leu

```

      20      25      30
Val Ile Arg Ala Leu Arg Leu Trp Arg Thr Ala Lys Leu Gln Val Thr
      35      40      45
Leu Lys Lys Tyr Ser Val His Leu Glu Asp Met Ala Thr Asn Ser Arg
      50      55      60
Ala Phe Thr Asn Leu Val Arg Lys Ala Leu Arg Leu Ile Gln Glu Thr
      65      70      75      80
Glu Val Ile Ser Arg Gly Phe Thr Leu Leu Leu Asp Arg Val Ser Ala
      85      90      95
Ala Cys Pro Phe Asn Lys Ala Gly Gln His Pro Ser Gln His Leu Ile
      100      105      110
Gly Leu Arg Lys Ala Val Tyr Arg Thr Leu Arg Ala Ser Phe Gln Ala
      115      120      125
Ala Arg Leu Ala Thr Leu Tyr Met Leu Lys Asn Tyr Pro Leu Asn Ser
      130      135      140
Glu Ser Asp Asn Val Thr Asn Tyr Ile Cys Val Val Pro Phe Lys Glu
      145      150      155      160
Leu Gly Leu Gly Leu Ser Glu Glu Gln Ile Ser Glu Glu Glu Ala His
      165      170      175
Lys Leu Tyr Arg Trp Leu Gln Pro Ala Cys Ile Glu Gly Phe Val Pro
      180      185      190
Thr Leu Gly Gly Thr Glu Phe Arg Val Leu Gln Thr Val Ser Pro Ile
      195      200      205
Thr Phe Tyr Ser Gln Phe Thr Ser Trp Ala Leu Thr Tyr Ser Ser Thr
      210      215      220
Ser Ala Ser Ser Tyr Leu Ile *
      225      230 231

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<210> 1402
 <211> 48
 <212> PRT
 <213> Homo sapiens

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      <400> 1402
Met Ala Pro Ala Arg Pro Trp Trp Leu Thr Pro Val Ile Pro Ala Leu
      1      5      10      15
Trp Glu Ala Glu Glu Asp Gly Ser Arg Gly Gln Glu Phe Lys Thr Ser
      20      25      30
Leu Ala Ser Met Val Lys Pro Arg Leu Tyr Tyr Lys Tyr Lys Asn *
      35      40      45      47

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<210> 1403
 <211> 53
 <212> PRT
 <213> Homo sapiens

```

      <400> 1403
Met Leu Trp Arg Leu Ile Ile Ile Leu Cys Glu Ala Leu Gln Arg Lys
      1      5      10      15
Ser Arg Leu Leu Ala Asp Cys Asp His Phe Ser Phe Pro Asn Arg Tyr
      20      25      30
Glu Arg Lys Leu Leu Leu Asp Phe Thr Val Arg Ile Trp Ile Gln Thr
      35      40      45

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Tyr Cys Pro His *
50 52

<210> 1404
<211> 90
<212> PRT
<213> Homo sapiens

<400> 1404
Met Arg Val Phe Cys Val Gly Leu Leu Leu Phe Ser Val Thr Trp Ala
1 5 10 15
Ala Pro Thr Phe Gln Pro Gln Thr Glu Lys Thr Lys Gln Ser Cys Val
20 25 30
Glu Glu Gln Arg Gln Glu Glu Lys Asn Lys Asp Asn Ile Gly Phe His
35 40 45
His Leu Gly Lys Arg Ile Asn Gln Glu Leu Ser Ser Lys Glu Asn Ile
50 55 60
Val Gln Glu Arg Lys Lys Asp Leu Ser Leu Ser Glu Ala Ser Glu Asn
65 70 75 80
Lys Gly Ser Ser Lys Ser Gln Asn Tyr Phe
85 90

<210> 1405
<211> 477
<212> PRT
<213> Homo sapiens

<400> 1405
Met Ala Gly Arg Gly Gly Ser Ala Leu Leu Ala Leu Cys Gly Ala Leu
1 5 10 15
Ala Ala Cys Gly Trp Leu Leu Gly Ala Glu Ala Gln Glu Pro Gly Ala
20 25 30
Pro Ala Ala Gly Met Arg Arg Arg Arg Leu Gln Gln Glu Asp Gly
35 40 45
Ile Ser Phe Glu Tyr His Arg Tyr Pro Glu Leu Arg Glu Ala Leu Val
50 55 60
Ser Val Trp Leu Gln Cys Thr Ala Ile Ser Arg Ile Tyr Thr Val Gly
65 70 75 80
Arg Ser Phe Glu Gly Arg Glu Leu Leu Val Ile Glu Leu Ser Asp Asn
85 90 95
Pro Gly Val His Glu Pro Gly Glu Pro Glu Phe Lys Tyr Ile Gly Asn
100 105 110
Met His Gly Asn Glu Ala Val Gly Arg Glu Leu Leu Ile Phe Leu Ala
115 120 125
Gln Tyr Leu Cys Asn Glu Tyr Gln Lys Gly Asn Glu Thr Ile Val Asn
130 135 140
Leu Ile His Ser Thr Arg Ile His Ile Met Pro Ser Leu Asn Pro Asp
145 150 155 160
Gly Phe Glu Lys Ala Ala Ser Gln Pro Gly Glu Leu Lys Asp Trp Phe
165 170 175
Val Gly Arg Ser Asn Ala Gln Gly Ile Asp Leu Asn Arg Asn Phe Pro
180 185 190
Asp Leu Asp Arg Ile Val Tyr Val Asn Glu Lys Glu Gly Gly Pro Asn

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      195              200              205
Asn His Leu Leu Lys Asn Met Lys Lys Ile Val Asp Gln Asn Thr Lys
 210              215              220
Leu Ala Pro Glu Thr Lys Ala Val Ile His Trp Ile Met Asp Ile Pro
225              230              235              240
Phe Val Leu Ser Ala Asn Leu His Gly Gly Asp Leu Val Ala Asn Tyr
      245              250              255
Pro Tyr Asp Glu Thr Arg Ser Gly Ser Ala His Glu Tyr Ser Ser Ser
      260              265              270
Pro Asp Asp Ala Ile Phe Gln Ser Leu Ala Arg Ala Tyr Ser Ser Phe
      275              280              285
Asn Pro Ala Met Ser Asp Pro Asn Arg Pro Pro Cys Arg Lys Asn Asp
 290              295              300
Asp Asp Ser Ser Phe Val Asp Gly Thr Thr Asn Gly Gly Ala Trp Tyr
305              310              315              320
Ser Val Pro Gly Gly Met Gln Asp Phe Asn Tyr Leu Ser Ser Asn Cys
      325              330              335
Phe Glu Ile Thr Val Glu Leu Ser Cys Glu Lys Phe Pro Pro Glu Glu
      340              345              350
Thr Leu Lys Thr Tyr Trp Glu Asp Asn Lys Asn Ser Leu Ile Ser Tyr
      355              360              365
Leu Glu Gln Ile His Arg Gly Val Lys Gly Phe Val Arg Asp Leu Gln
 370              375              380
Gly Asn Pro Ile Ala Asn Ala Thr Ile Ser Val Glu Gly Ile Asp His
385              390              395              400
Asp Val Thr Ser Ala Lys Asp Gly Asp Tyr Trp Arg Leu Leu Ile Pro
      405              410              415
Gly Asn Tyr Lys Leu Thr Ala Ser Ala Pro Gly Tyr Leu Ala Ile Thr
      420              425              430
Lys Lys Val Ala Val Pro Tyr Ser Pro Ala Ala Gly Val Asp Phe Glu
      435              440              445
Leu Glu Ser Phe Ser Glu Arg Lys Glu Glu Glu Lys Glu Glu Leu Met
      450              455              460
Glu Trp Trp Lys Met Met Ser Glu Thr Leu Asn Phe *
465              470              475 476

```

<210> 1406
 <211> 55
 <212> PRT
 <213> Homo sapiens

```

      <400> 1406
Met Phe Ile Gly Ile Trp Val Ser Leu Tyr Gln Val Leu Trp Leu Lys
  1              5              10              15
Glu Leu Leu Trp Gly His Tyr Ile Phe Trp Val Ser Arg Lys Met Phe
      20              25              30
Val Tyr Gly Gly Val Gly Gly Lys Thr Ala Asn Ile Cys Arg Lys Gly
      35              40              45
Arg Ile Ile Lys Lys Val *
  50              54

```

<210> 1407
 <211> 66
 <212> PRT

<213> Homo sapiens

<400> 1407

```

Met Leu Leu Gly Val Arg Ala Val Pro Leu Cys Ser Ala Trp Gln Gly
 1          5          10          15
Ala Val Gly Leu Val Ser Leu Thr Ile Ser Ile Cys Lys His Gly Leu
      20          25          30
Ser Phe Gln Gln Asn Leu Val Pro Gly Lys Ser Asn Val Pro Lys Ala
      35          40          45
Ser Asp Met Pro Arg Cys Pro Pro Val Asp Ala Ala Ala Asn Ser Arg
      50          55          60
Ser Met
65 66

```

<210> 1408

<211> 58

<212> PRT

<213> Homo sapiens

<400> 1408

```

Met Leu Leu Lys Phe Leu Cys Glu Cys Met Pro Ser Leu Leu Leu Ser
 1          5          10          15
Glu Phe Leu Asp Ser Pro Arg Ser Gly Ile Asp Gly Ser Asn Gly Asn
      20          25          30
Ser Met Phe Asn Phe Val Lys Asn Cys His Phe Pro Thr Ala Ala Ala
      35          40          45
Pro Phe Pro Thr Pro Thr Ser Arg Val *
      50          55          57

```

<210> 1409

<211> 72

<212> PRT

<213> Homo sapiens

<400> 1409

```

Met Ile Glu Thr Trp Leu Trp Leu Leu Leu Leu Asn Val Gly Gly Thr
 1          5          10          15
Gly Gln Trp Ser Gly Pro Thr Phe Arg Arg Glu Asn Val Leu Pro Ala
      20          25          30
Ala His Ile Gly Pro Lys Tyr Gly Pro Leu Leu Pro Ser Thr Ala Lys
      35          40          45
Gly Thr Val Lys Val Ser Cys Pro Ser Ser Thr Pro His Pro Pro Leu
      50          55          60
Gln Gly Lys Gly Thr Pro Asp *
65          70 71

```

<210> 1410

<211> 53

<212> PRT

<213> Homo sapiens

<400> 1410
 Met Arg Phe Leu Leu Leu Trp Phe Ile Leu Arg Gly Arg Gln Leu Val
 1 5 10 15
 Pro Leu Arg Pro Arg Arg Ser Pro Leu Pro Asp Thr Asn Ala Pro Leu
 20 25 30
 Pro Gly Leu Gly Gly Gly Asp Gly Ser Thr Gln Thr Pro Phe Ala Gln
 35 40 45
 Ser Arg Arg Leu *
 50 52

<210> 1411
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 1411
 Met Ala Ser Gln Ser Met Cys Phe Leu Trp Leu Ala Pro Val Thr Trp
 1 5 10 15
 Cys Val Met Phe Ser Ser Arg Thr Cys Tyr Ser Pro Cys Gly Asn Phe
 20 25 30
 Ser Thr Ala Pro Gly Arg Val Ile Phe His Ser Trp Asp Arg Ala Gln
 35 40 45
 Phe Val Tyr Ser Phe Leu Ser Arg Trp Arg Leu Gly Leu Phe Pro Pro
 50 55 60
 Leu Ala Ser Val Asn Gly Asp Ala Val Ile Met Gly Val Pro Val Phe
 65 70 75 80
 Val *
 81

<210> 1412
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1412
 Met Phe Leu Leu Leu Phe Cys Leu Met Phe Asp Phe Thr Lys Val Phe
 1 5 10 15
 Phe Ile Leu Leu Leu His Ile Phe Cys Leu Ser Thr Cys Leu Phe Leu
 20 25 30
 Gly Leu His Ile Cys Ala Ser Phe His Ala Arg Ala Leu Leu Glu Thr
 35 40 45
 Ala Leu Ile Leu Leu Arg Met Lys Ile Ala Gly Phe Gln Val Ile Leu
 50 55 60
 Phe Pro Gln Asp Phe Val Leu *
 65 70 71

<210> 1413
 <211> 59
 <212> PRT

<213> Homo sapiens

<400> 1413

```

Met Met Thr Ile Lys Glu Phe Thr Leu Leu Leu Val Ser Leu Gln Phe
 1          5          10          15
Ser Thr Phe Pro Ser Lys Lys Phe Leu Leu Glu Thr His Phe Leu Lys
          20          25          30
Asn Ser Glu Asn Trp Leu Gly Val Val Ala His Ala Cys Ser Leu Ser
          35          40          45
Thr Leu Gly Trp Pro Arg Arg Arg Thr Ala *
 50          55          58

```

<210> 1414

<211> 78

<212> PRT

<213> Homo sapiens

<400> 1414

```

Met Leu Arg Leu Asp Ile Ile Asn Ser Leu Val Thr Thr Val Phe Met
 1          5          10          15
Leu Ile Val Ser Val Leu Ala Leu Ile Pro Glu Thr Thr Thr Leu Thr
          20          25          30
Val Gly Gly Gly Val Phe Ala Leu Val Thr Ala Val Cys Cys Leu Ala
          35          40          45
Asp Gly Ala Leu Ile Tyr Arg Lys Leu Leu Phe Asn Pro Ser Gly Pro
          50          55          60
Tyr Gln Lys Lys Pro Val His Glu Lys Lys Glu Val Leu *
 65          70          75          77

```

<210> 1415

<211> 171

<212> PRT

<213> Homo sapiens

<400> 1415

```

Met His Met Met Lys Leu Ser Ile Lys Val Leu Leu Gln Ser Ala Leu
 1          5          10          15
Ser Leu Gly Arg Ser Leu Asp Ala Asp His Ala Pro Leu Gln Gln Phe
          20          25          30
Phe Val Val Met Glu His Cys Leu Lys His Gly Leu Lys Val Lys Lys
          35          40          45
Ser Phe Ile Gly Gln Asn Lys Ser Phe Phe Gly Pro Leu Glu Leu Val
          50          55          60
Glu Lys Leu Cys Pro Glu Ala Ser Asp Ile Ala Thr Ser Val Arg Asn
          65          70          75          80
Leu Pro Glu Leu Lys Thr Ala Val Gly Arg Gly Arg Ala Trp Leu Tyr
          85          90          95
Leu Ala Leu Met Gln Lys Lys Leu Ala Asp Tyr Leu Lys Val Leu Ile
          100          105          110
Asp Asn Lys His Leu Leu Ser Glu Phe Tyr Glu Pro Glu Ala Leu Met
          115          120          125
Met Glu Glu Glu Gly Met Val Ile Val Gly Leu Leu Val Gly Leu Asn

```

```

      130              135              140
Val Leu Asp Ala Asn Leu Trp Leu Glu Arg Arg Arg Leu Gly Phe Ser
145              150              155              160
Gly Trp Ser Asn Arg Phe Phe Pro Leu Pro *
      165              170

```

```

<210> 1416
<211> 77
<212> PRT
<213> Homo sapiens

```

```

<400> 1416
Met Leu Thr Arg Leu Val Leu Ser Ala His Leu Ser Ser Thr Thr Phe
 1              5              10              15
Pro Pro Trp Thr His Ala Ala Ile Ser Trp Glu Leu Asp Asn Val Leu
      20              25              30
Met Pro Ser Pro Arg Ile Trp Pro Gln Val Thr Pro Thr Ala Gly Gln
      35              40              45
Asp Val His Ala Ile Val Thr Arg Thr Cys Glu Ser Val Leu Ser Ser
      50              55              60
Val Val Tyr Thr His Gly Cys Gly Cys Val Arg Cys *
      65              70              75 76

```

```

<210> 1417
<211> 249
<212> PRT
<213> Homo sapiens

```

```

<400> 1417
Met Glu Lys Ile Pro Glu Ile Gly Lys Phe Gly Glu Lys Ala Pro Pro
 1              5              10              15
Ala Pro Ser His Val Trp Arg Pro Ala Ala Leu Phe Leu Thr Leu Leu
      20              25              30
Cys Leu Leu Leu Ile Gly Leu Gly Val Leu Ala Ser Met Phe His
      35              40              45
Val Thr Leu Lys Ile Glu Met Lys Lys Met Asn Lys Leu Gln Asn Ile
      50              55              60
Ser Glu Glu Leu Gln Arg Asn Ile Ser Leu Gln Leu Met Ser Asn Met
      65              70              75 80
Asn Ile Ser Asn Lys Ile Arg Asn Leu Ser Thr Thr Leu Gln Thr Ile
      85              90              95
Ala Thr Lys Leu Cys Arg Glu Leu Tyr Ser Lys Glu Gln Glu His Lys
      100              105              110
Cys Lys Pro Cys Pro Arg Arg Trp Ile Trp His Lys Asp Ser Cys Tyr
      115              120              125
Phe Leu Ser Asp Asp Val Gln Thr Trp Gln Glu Ser Lys Met Ala Cys
      130              135              140
Ala Ala Gln Asn Ala Ser Leu Leu Lys Ile Asn Asn Lys Asn Ala Leu
145              150              155              160
Glu Phe Ile Lys Ser Gln Ser Arg Ser Tyr Asp Tyr Trp Leu Gly Leu
      165              170              175
Ser Pro Glu Glu Asp Ser Thr Arg Gly Met Arg Val Asp Asn Ile Ile
      180              185              190

```



```

Asn Ser Ser Ala Trp Val Ile Arg Asn Ala Pro Asp Leu Asn Asn Met
    195                200                205
Tyr Cys Gly Tyr Ile Asn Arg Leu Tyr Val Gln Tyr Tyr His Cys Thr
    210                215                220
Tyr Lys Gln Arg Met Ile Cys Glu Lys Met Ala Asn Pro Val Gln Leu
    225                230                235                240
Gly Ser Thr Tyr Phe Arg Glu Ala *
    245                248

```

```

<210> 1418
<211> 65
<212> PRT
<213> Homo sapiens

```

```

<400> 1418
Met Gly Leu Lys Asn Val Phe Leu Pro Val Phe Leu Pro Phe Leu Leu
  1                    5                10                15
Tyr Ser Glu Phe Leu Ser Leu Pro Pro Ser Leu Ser Ser Ser Leu Leu
    20                25                30
Pro Phe Leu Pro Phe Ser Leu Pro Gly His Phe Ser Asn Leu His Gln
    35                40                45
Arg Tyr Leu Lys Cys Trp Tyr Leu Arg Ile Ser Val Thr Pro Leu Ile
    50                55                60                64
*
```

```

<210> 1419
<211> 468
<212> PRT
<213> Homo sapiens

```

```

<400> 1419
Met Leu Leu Leu Leu Leu Leu Pro Leu Leu Trp Gly Arg Glu Arg Val
  1                    5                10                15
Glu Gly Gln Lys Ser Asn Arg Lys Asp Tyr Ser Leu Thr Met Gln Ser
    20                25                30
Ser Val Thr Val Gln Glu Gly Met Cys Val His Val Arg Cys Ser Phe
    35                40                45
Ser Tyr Pro Val Asp Ser Gln Thr Asp Ser Asp Pro Val His Gly Tyr
    50                55                60
Trp Phe Arg Ala Gly Asn Asp Ile Ser Trp Lys Ala Pro Val Ala Thr
    65                70                75                80
Asn Asn Pro Ala Trp Ala Val Gln Glu Thr Arg Asp Arg Phe His
    85                90                95
Leu Leu Gly Asp Pro Gln Thr Lys Asn Cys Thr Leu Ser Ile Arg Asp
    100                105                110
Ala Arg Met Ser Asp Ala Gly Arg Tyr Phe Phe Arg Met Glu Lys Gly
    115                120                125
Asn Ile Lys Trp Asn Tyr Lys Tyr Asp Gln Leu Ser Val Asn Val Thr
    130                135                140
Ala Leu Thr His Arg Pro Asn Ile Leu Ile Pro Gly Thr Leu Glu Ser
    145                150                155                160
Gly Cys Phe Gln Asn Leu Thr Cys Ser Val Pro Trp Ala Cys Glu Gln

```

165 170 175
 Gly Thr Pro Pro Met Ile Ser Trp Met Gly Thr Ser Val Ser Pro Leu
 180 185 190
 His Pro Ser Thr Thr Arg Ser Ser Val Leu Thr Leu Ile Pro Gln Pro
 195 200 205
 Gln His His Gly Thr Ser Leu Thr Cys Gln Val Thr Leu Pro Gly Ala
 210 215 220
 Gly Val Thr Thr Asn Arg Thr Ile Gln Leu Asn Val Ser Tyr Pro Pro
 225 230 235 240
 Gln Asn Leu Thr Val Thr Val Phe Gln Gly Glu Gly Thr Ala Ser Thr
 245 250 255
 Ala Leu Gly Asn Ser Ser Ser Leu Ser Val Leu Glu Gly Gln Ser Leu
 260 265 270
 Arg Leu Val Cys Ala Val Asp Ser Asn Pro Pro Ala Arg Leu Ser Trp
 275 280 285
 Thr Trp Arg Ser Leu Thr Leu Tyr Pro Ser Gln Pro Ser Asn Pro Leu
 290 295 300
 Val Leu Glu Leu Gln Val His Leu Gly Asp Glu Gly Glu Phe Thr Cys
 305 310 315 320
 Arg Ala Gln Asn Ser Leu Gly Ser Gln His Val Ser Leu Asn Leu Ser
 325 330 335
 Leu Gln Gln Glu Tyr Thr Gly Lys Met Arg Pro Val Ser Gly Val Leu
 340 345 350
 Leu Gly Ala Val Gly Gly Ala Gly Ala Thr Ala Leu Val Phe Leu Ser
 355 360 365
 Phe Cys Val Ile Phe Ile Val Val Arg Ser Cys Arg Lys Lys Ser Ala
 370 375 380
 Arg Pro Ala Ala Asp Val Gly Asp Ile Gly Met Lys Asp Ala Asn Thr
 385 390 395 400
 Ile Arg Gly Ser Ala Ser Gln Gly Asn Leu Thr Glu Ser Trp Ala Asp
 405 410 415
 Asp Asn Pro Arg His His Gly Leu Ala Ala His Ser Ser Gly Glu Glu
 420 425 430
 Arg Glu Ile Gln Tyr Ala Pro Leu Ser Phe His Lys Gly Glu Pro Gln
 435 440 445
 Asp Leu Ser Gly Gln Glu Ala Thr Asn Asn Glu Tyr Ser Glu Ile Lys
 450 455 460
 Ile Pro Lys *
 465 467

<210> 1420
 <211> 150
 <212> PRT
 <213> Homo sapiens

<400> 1420
 Met Ile Arg Cys Leu Ala Gln Pro Ala Ala Val Leu Ser Ser Leu Gly
 1 5 10 15
 Leu Ala Gln Val Leu Gly Asp Ser Gly Arg Asp Glu Gln Val Leu Leu
 20 25 30
 Arg Arg Ser Phe Arg Ala Glu Gly Cys Val Leu Cys Leu Cys Thr Trp
 35 40 45
 Gly Thr Ala Val Pro Trp His Lys Val Glu Gly Ser Gly Gly Pro Cys
 50 55 60
 Arg Ser Ala Ala Pro Leu Pro Ala Ser Ala Pro Phe Ser Ile Asp Gly
 65 70 75 80

Arg Ala Val Pro Trp Val Phe Ser Ala Leu Gln Ala Glu Val Gly Val
 85 90 95
 Leu Gly Glu Gln Met Arg Asp Gly Arg Gly Leu Cys Gly Ser His Pro
 100 105 110
 Trp Val Leu Gln Leu Ser Trp Pro Gly Val Phe Pro Gln Cys Trp Leu
 115 120 125
 Cys Pro Arg Leu Val Cys Leu Ala Lys Gln Asn Trp Gln Cys Pro Phe
 130 135 140
 Glu Thr Pro Arg Lys *
 145 149

<210> 1421
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 1421
 Met Tyr Val Phe Leu Leu Cys Pro Ala Cys Gly Arg Leu Met Gly Ser
 1 5 10 15
 Thr Tyr Met Arg Leu Leu Pro Gln Ser Glu Pro Ala Leu His Asn Arg
 20 25 30
 Ile Leu Arg Gln Thr Glu Pro Leu Leu Tyr Phe Lys Arg Gly Lys Gln
 35 40 45
 Gln Gly Leu Phe Tyr Ala Ser Phe Pro Ala Val His Arg Met Asp Ser
 50 55 60
 Leu Leu Arg Arg Thr Val Ile Leu Tyr Lys Arg Thr Asn Thr Val
 65 70 75 80
 Gly Val Ser Leu Phe Gln Asn Ala *
 85 88

<210> 1422
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1422
 Met Met Thr Trp Ala Ser Leu Ala Leu Gly Leu Thr Arg Ala Leu Gly
 1 5 10 15
 Gly Met Gly Ser Phe Leu Leu Arg Ile Leu Gly Trp Ser Trp Ala Met
 20 25 30
 Gly Ser Arg Ser Arg Ala Arg Trp Pro Arg Gly Arg Leu Gly Phe Thr
 35 40 45
 Ser Met Leu Ser Cys Met Arg Gln Cys Ser Val Cys Arg Met Ile Met
 50 55 60
 Ser Leu Val Glu Val Leu Val Ala Thr Ser Gln Val Val Lys Leu Trp
 65 70 75 80
 Ser Arg *
 82

<210> 1423
 <211> 54

<212> PRT

<213> Homo sapiens

<400> 1423

```

Met Ile Leu Phe Pro Leu Cys Pro Ser Ile Leu Ser Leu Lys Pro Lys
 1           5           10           15
Lys Lys Glu Ala Leu Pro Ser Leu Ser Val Met Gly Thr Val Phe Leu
           20           25           30
Leu Val Ser Cys Ser Leu Pro Ser Pro Ala Ala Cys Gly Arg Asn Ala
           35           40           45
Ala Thr Ala Gln His *
           50           53

```

<210> 1424

<211> 73

<212> PRT

<213> Homo sapiens

<400> 1424

```

Met Cys Phe Ser Cys Leu Pro Leu Gln Cys Leu Ala Met Gly His Lys
 1           5           10           15
His Tyr Pro Ala Val Gly Arg Leu Ala Lys Arg Ser Gln Leu Ala Ser
           20           25           30
Pro Ala Ser Ser Arg Glu Trp Asn His Gly Ser Asn Thr Leu Leu Arg
           35           40           45
Lys Gln Lys Leu Tyr Gly His Ile Phe His Leu Leu Ser Pro Arg Asn
           50           55           60
His Met Tyr Cys Asp Pro Ala His *
           65           70           72

```

<210> 1425

<211> 245

<212> PRT

<213> Homo sapiens

<400> 1425

```

Met Ala Cys Tyr Leu Leu Val Ala Asn Ile Leu Leu Val Asn Leu Leu
 1           5           10           15
Ile Ala Val Phe Asn Asn Thr Phe Phe Glu Val Lys Ser Ile Ser Asn
           20           25           30
Gln Val Trp Lys Phe Gln Arg Tyr Gln Leu Ile Met Thr Phe His Glu
           35           40           45
Arg Pro Val Leu Pro Pro Pro Leu Ile Ile Phe Ser His Met Thr Met
           50           55           60
Ile Phe Gln His Leu Cys Cys Arg Trp Arg Lys His Glu Ser Asp Pro
           65           70           75           80
Asp Glu Arg Asp Tyr Gly Leu Lys Leu Phe Ile Thr Asp Asp Glu Leu
           85           90           95
Lys Lys Val His Asp Phe Glu Glu Gln Cys Ile Glu Glu Tyr Phe Arg
           100          105          110
Glu Lys Asp Asp Arg Phe Asn Ser Ser Asn Asp Glu Arg Ile Arg Val
           115          120          125

```

```

Thr Ser Glu Arg Val Glu Asn Met Ser Met Arg Leu Glu Glu Val Asn
130                      135                      140
Glu Arg Glu His Ser Met Lys Ala Ser Leu Gln Thr Val Asp Ile Arg
145                      150                      155                      160
Leu Ala Gln Leu Glu Asp Leu Ile Gly Arg Met Ala Thr Ala Leu Glu
165                      170                      175
Arg Leu Thr Gly Leu Glu Arg Ala Glu Ser Asn Lys Ile Arg Ser Arg
180                      185                      190
Thr Ser Ser Asp Cys Thr Asp Ala Arg Leu His Trp Pro Val Arg Ala
195                      200                      205
Ala Leu Thr Ser Gln Glu Arg Glu His Leu Ser Ala Pro Lys Arg Gly
210                      215                      220
Leu Glu Pro Trp Gln Asn Ile Leu Phe Ile Gln Tyr Lys Pro Ala Ala
225                      230                      235                      240
Ser Ser Ser Thr *
244

```

```

<210> 1426
<211> 520
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(520)
<223> Xaa = any amino acid or nothing

```

```

<400> 1426
Met Asp Ile Leu Leu Leu Leu Phe Phe Met Ile Ile Phe Ala Ile
1      5      10      15
Leu Gly Phe Tyr Leu Phe Ser Pro Asn Pro Ser Asp Pro Tyr Phe Ser
20      25      30
Thr Leu Glu Asn Ser Ile Val Ser Leu Phe Val Leu Leu Thr Thr Ala
35      40      45
Asn Phe Pro Asp Val Met Met Pro Ser Tyr Ser Arg Asn Pro Trp Ser
50      55      60
Cys Val Phe Phe Ile Val Tyr Leu Ser Ile Glu Leu Tyr Phe Ile Met
65      70      75      80
Asn Leu Leu Leu Ala Val Val Phe Asp Thr Phe Asn Asp Ile Glu Lys
85      90      95
Arg Lys Phe Lys Ser Leu Leu Leu His Lys Arg Thr Ala Ile Gln His
100     105     110
Ala Tyr Arg Leu Leu Ile Ser Gln Arg Arg Pro Ala Gly Ile Ser Tyr
115     120     125
Arg Gln Phe Glu Gly Leu Met Arg Phe Tyr Lys Pro Arg Met Ser Ala
130     135     140
Arg Glu Arg Tyr Leu Thr Phe Lys Ala Leu Asn Gln Asn Thr Pro
145     150     155     160
Leu Leu Ser Leu Lys Asp Phe Tyr Asp Ile Tyr Glu Val Ala Ala Leu
165     170     175
Lys Trp Lys Ala Thr Lys Asn Arg Glu His Trp Val Asp Glu Leu Pro
180     185     190
Arg Thr Ala Leu Leu Ile Phe Lys Gly Ile Asn Ile Leu Val Lys Ala
195     200     205
Lys Ala Phe Gln Tyr Phe Met Tyr Leu Val Val Ala Val Asn Gly Val
210     215     220
Trp Ile Leu Val Glu Thr Phe Met Leu Lys Gly Gly Asn Phe Phe Ser

```

225					230					235					240
Lys	His	Val	Pro	Trp	Ser	Tyr	Leu	Val	Phe	Leu	Thr	Ile	Tyr	Gly	Val
				245					250					255	
Glu	Leu	Phe	Leu	Lys	Val	Ala	Gly	Leu	Gly	Pro	Val	Glu	Tyr	Leu	Ser
			260					265				270			
Ser	Gly	Trp	Asn	Leu	Phe	Asp	Phe	Ser	Val	Thr	Val	Phe	Ala	Phe	Leu
		275					280					285			
Gly	Leu	Leu	Ala	Leu	Ala	Leu	Asn	Met	Glu	Pro	Phe	Tyr	Phe	Ile	Val
	290				295					300					
Val	Leu	Arg	Pro	Leu	Gln	Leu	Leu	Arg	Leu	Phe	Lys	Leu	Lys	Glu	Arg
305				310					315					320	
Tyr	Arg	Asn	Val	Leu	Asp	Thr	Met	Phe	Glu	Leu	Leu	Pro	Arg	Met	Ala
			325					330				335			
Ser	Leu	Gly	Leu	Thr	Leu	Leu	Ile	Phe	Tyr	Tyr	Ser	Phe	Ala	Ile	Val
		340						345				350			
Gly	Met	Glu	Phe	Phe	Cys	Gly	Ile	Val	Phe	Pro	Asn	Cys	Cys	Asn	Thr
	355				360						365				
Ser	Thr	Val	Ala	Asp	Ala	Tyr	Arg	Trp	Arg	Asn	His	Thr	Val	Gly	Asn
	370				375					380					
Arg	Thr	Val	Val	Glu	Glu	Gly	Tyr	Tyr	Tyr	Leu	Asn	Asn	Phe	Asp	Asn
385				390					395					400	
Ile	Leu	Asn	Ser	Phe	Val	Thr	Leu	Phe	Glu	Leu	Thr	Val	Val	Asn	Asn
			405					410				415			
Trp	Tyr	Ile	Ile	Met	Glu	Gly	Val	Thr	Ser	Gln	Thr	Ser	His	Trp	Ser
		420						425				430			
Arg	Leu	Tyr	Phe	Met	Thr	Phe	Tyr	Ile	Ala	Thr	Met	Val	Val	Met	Thr
	435				440						445				
Ile	Ile	Val	Ala	Phe	Ile	Leu	Glu	Ala	Phe	Val	Phe	Arg	Met	Asn	Tyr
	450				455				460						
Ser	Arg	Lys	Asn	Gln	Asp	Ser	Glu	Val	Asp	Gly	Gly	Ile	Thr	Leu	Glu
465				470					475					480	
Lys	Glu	Ile	Ser	Lys	Glu	Glu	Leu	Val	Ala	Val	Leu	Glu	Leu	Tyr	Arg
			485					490				495			
Glu	Ala	Arg	Xaa	Ala	Ser	Ser	Asp	Val	Thr	Arg	Leu	Leu	Glu	Thr	Leu
		500						505				510			
Ser	Gln	Met	Glu	Arg	Tyr	Gln	Gln								
	515						520								

```
<210> 1427
<211> 106
<212> PRT
<213> Homo sapiens
```

<400> 1427																
Met	Ser	Pro	Gln	His	Leu	Leu	Leu	Thr	Leu	Pro	Leu	Pro	Leu	Arg	Ser	
1				5					10					15		
Pro	Ile	Leu	Phe	Ser	His	Thr	Ala	Gln	Leu	Leu	Val	Leu	Thr	Arg	Ile	
			20					25					30			
Ala	Phe	Arg	Ala	Cys	Glu	Leu	Phe	Phe	Phe	Val	Met	Val	Ser	Leu	Cys	
		35					40					45				
Cys	Pro	Gly	Ile	His	Ser	Phe	Ile	Ala	Thr	Ile	Thr	Tyr	Glu	Arg	Asn	
	50					55					60					
Ala	Phe	Gln	Ser	Ile	Ser	Ser	Val	Gln	Gln	Gln	His	Leu	His	Phe	Gly	
65					70					75					80	
Cys	Ala	Leu	Ser	Pro	Pro	Ala	Pro	Arg	Glu	Ser	Phe	Ser	Pro	Cys	Leu	
				85					90					95		

Thr Thr His Arg Leu Pro Ser Cys Phe *
 100 105

<210> 1428
 <211> 841
 <212> PRT
 <213> Homo sapiens

<400> 1428
 Met Ala Leu Ala Ser Ala Ala Pro Gly Ser Ile Phe Cys Lys Gln Leu
 1 5 10 15
 Leu Phe Ser Leu Leu Val Leu Thr Leu Leu Cys Asp Ala Cys Gln Lys
 20 25 30
 Val Tyr Leu Arg Val Pro Ser His Leu Gln Ala Glu Thr Leu Val Gly
 35 40 45
 Lys Val Asn Leu Glu Glu Cys Leu Lys Ser Ala Ser Leu Ile Arg Ser
 50 55 60
 Ser Asp Pro Ala Phe Arg Ile Leu Glu Asp Gly Ser Ile Tyr Thr Thr
 65 70 75 80
 His Asp Leu Ile Leu Ser Ser Glu Arg Lys Ser Phe Ser Ile Phe Leu
 85 90 95
 Ser Asp Gly Gln Arg Arg Glu Gln Gln Glu Ile Lys Val Val Leu Ser
 100 105 110
 Ala Arg Glu Asn Lys Ser Pro Lys Lys Arg His Thr Lys Asp Thr Ala
 115 120 125
 Leu Lys Arg Ser Lys Arg Arg Trp Ala Pro Ile Pro Ala Ser Leu Met
 130 135 140
 Glu Asn Ser Leu Gly Pro Phe Pro Gln His Val Gln Gln Ile Gln Ser
 145 150 155 160
 Asp Ala Ala Gln Asn Tyr Thr Ile Phe Tyr Ser Ile Ser Gly Pro Gly
 165 170 175
 Val Asp Lys Glu Pro Phe Asn Leu Phe Tyr Ile Glu Lys Asp Thr Gly
 180 185 190
 Asp Ile Phe Cys Thr Arg Ser Ile Asp Arg Glu Lys Tyr Glu Gln Phe
 195 200 205
 Ala Leu Tyr Gly Tyr Ala Thr Thr Ala Asp Gly Tyr Ala Pro Glu Tyr
 210 215 220
 Pro Leu Pro Leu Ile Ile Lys Ile Glu Asp Asp Asn Asp Asn Ala Pro
 225 230 235 240
 Tyr Phe Glu His Arg Val Thr Ile Phe Thr Val Pro Glu Asn Cys Arg
 245 250 255
 Ser Gly Thr Ser Val Gly Lys Val Thr Ala Thr Asp Leu Asp Glu Pro
 260 265 270
 Asp Thr Leu His Thr Arg Leu Lys Tyr Lys Ile Leu Gln Gln Ile Pro
 275 280 285
 Asp His Pro Lys His Phe Ser Ile His Pro Asp Thr Gly Val Ile Thr
 290 295 300
 Thr Thr Thr Pro Phe Leu Asp Arg Glu Lys Cys Asp Thr Tyr Gln Leu
 305 310 315 320
 Ile Met Glu Val Arg Asp Met Gly Gly Gln Pro Phe Gly Leu Phe Asn
 325 330 335
 Thr Gly Thr Ile Thr Ile Ser Leu Glu Asp Glu Asn Asp Asn Pro Pro
 340 345 350
 Ser Phe Thr Glu Thr Ser Tyr Val Thr Glu Val Glu Glu Asn Arg Ile
 355 360 365
 Asp Val Glu Ile Leu Arg Met Lys Val Gln Asp Gln Asp Leu Pro Asn

370 375 380
 Thr Pro His Ser Lys Ala Val Tyr Lys Ile Leu Gln Gly Asn Glu Asn
 385 390 395 400
 Gly Asn Phe Ile Ile Ser Thr Asp Pro Asn Thr Asn Glu Gly Val Leu
 405 410 415
 Cys Val Val Lys Pro Leu Asn Tyr Glu Val Asn Arg Gln Val Ile Leu
 420 425 430
 Gln Val Gly Val Ile Asn Glu Ala Gln Phe Ser Lys Ala Ala Ser Ser
 435 440 445
 Gln Thr Pro Thr Met Cys Thr Thr Thr Val Thr Val Lys Ile Ile Asp
 450 455 460
 Ser Asp Glu Gly Pro Glu Cys His Pro Pro Val Lys Val Ile Gln Ser
 465 470 475 480
 Gln Asp Gly Phe Pro Ala Gly Gln Glu Leu Leu Gly Tyr Lys Ala Leu
 485 490 495
 Asp Pro Glu Ile Ser Ser Gly Glu Gly Leu Arg Tyr Gln Lys Leu Gly
 500 505 510
 Asp Glu Asp Asn Trp Phe Glu Ile Asn Gln His Thr Gly Asp Leu Arg
 515 520 525
 Thr Leu Lys Val Leu Asp Arg Glu Ser Lys Phe Val Lys Asn Asn Gln
 530 535 540
 Tyr Asn Ile Ser Val Val Ala Gly Asp Ala Val Gly Arg Ser Cys Thr
 545 550 555 560
 Gly Thr Leu Val Val His Leu Asp Asp Tyr Asn Asp His Ala Pro Gln
 565 570 575
 Ile Asp Lys Glu Val Thr Ile Cys Gln Asn Asn Glu Asp Phe Val Val
 580 585 590
 Leu Lys Pro Val Asp Pro Asp Gly Pro Glu Asn Gly Pro Pro Phe Gln
 595 600 605
 Phe Phe Leu Asp Asn Ser Ala Ser Lys Asn Trp Asn Ile Lys Lys Lys
 610 615 620
 Asp Gly Lys Thr Ala Ile Leu Arg Gln Arg Gln Asn Leu Asp Tyr Asn
 625 630 635 640
 Tyr Tyr Ser Val Pro Ile Gln Ile Lys Asp Arg His Gly Leu Val Ala
 645 650 655
 Thr His Met Leu Thr Val Arg Val Cys Asp Cys Ser Thr Pro Ser Glu
 660 665 670
 Cys Thr Met Lys Asp Lys Ser Thr Arg Asp Val Arg Pro Asn Val Ile
 675 680 685
 Leu Gly Arg Trp Ala Ile Leu Ala Met Val Leu Gly Ser Val Leu Leu
 690 695 700
 Leu Cys Ile Leu Phe Thr Cys Phe Cys Val Thr Ala Lys Arg Thr Val
 705 710 715 720
 Lys Lys Cys Phe Pro Glu Asp Ile Ala Gln Gln Asn Leu Ile Val Ser
 725 730 735
 Asn Thr Glu Gly Pro Gly Glu Glu Val Thr Glu Ala Asn Ile Arg Leu
 740 745 750
 Pro Met Gln Thr Ser Asn Ile Cys Asp Thr Ser Met Ser Val Gly Thr
 755 760 765
 Val Gly Gly Gln Gly Ile Lys Thr Gln Gln Ser Phe Glu Met Val Lys
 770 775 780
 Gly Gly Tyr Thr Leu Asp Ser Asn Lys Gly Gly Gly His Gln Thr Leu
 785 790 795 800
 Glu Ser Val Lys Gly Val Gly Gln Gly Asp Thr Gly Arg Tyr Ala Tyr
 805 810 815
 Thr Asp Trp Gln Ser Phe Thr Gln Pro Arg Leu Gly Glu Glu Ser Ile
 820 825 830
 Arg Gly His Thr Leu Ile Lys Asn *
 835 840

<210> 1429
 <211> 262
 <212> PRT
 <213> Homo sapiens

<400> 1429
 Met Glu Leu Leu Gln Val Thr Ile Leu Phe Leu Leu Pro Ser Ile Cys
 1 5 10 15
 Ser Ser Asn Ser Thr Gly Val Leu Glu Ala Ala Asn Asn Ser Leu Val
 20 25 30
 Val Thr Thr Thr Lys Pro Ser Ile Thr Thr Pro Asn Thr Glu Ser Leu
 35 40 45
 Gln Lys Asn Val Val Thr Pro Thr Thr Gly Thr Thr Pro Lys Gly Thr
 50 55 60
 Ile Thr Asn Glu Leu Leu Lys Met Ser Leu Met Ser Thr Ala Thr Phe
 65 70 75 80
 Leu Thr Ser Lys Asp Gly Leu Lys Ala Thr Thr Thr Asp Val Arg
 85 90 95
 Lys Asn Asp Ser Ile Ile Ser Asn Val Thr Val Thr Ser Val Thr Leu
 100 105 110
 Pro Asn Ala Val Ser Thr Leu Gln Ser Ser Lys Pro Lys Thr Glu Thr
 115 120 125
 Gln Ser Ser Ile Lys Thr Thr Glu Ile Pro Gly Ser Val Leu Gln Pro
 130 135 140
 Asp Ala Ser Pro Ser Lys Thr Gly Thr Leu Thr Ser Ile Pro Val Thr
 145 150 155 160
 Ile Pro Glu Asn Thr Ser Gln Ser Gln Val Ile Gly Thr Glu Gly Gly
 165 170 175
 Lys Asn Ala Ser Thr Ser Ala Thr Ser Arg Ser Tyr Ser Ser Ile Ile
 180 185 190
 Leu Pro Val Val Ile Ala Leu Ile Val Ile Thr Leu Ser Val Phe Val
 195 200 205
 Leu Val Gly Leu Tyr Arg Met Cys Trp Lys Ala Asp Pro Gly Thr Pro
 210 215 220
 Glu Asn Gly Asn Asp Gln Pro Gln Ser Asp Lys Glu Ser Val Lys Leu
 225 230 235 240
 Leu Thr Val Lys Thr Ile Ser His Glu Ser Gly Glu His Ser Ala Gln
 245 250 255
 Gly Lys Thr Lys Asn *
 260 261

<210> 1430
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 1430
 Met Ser Tyr Thr Ala Phe Leu Ser Val Cys Cys Leu Pro Leu Leu Pro
 1 5 10 15
 Leu Cys Asp Phe Ala Leu Tyr Val Leu Leu Asp Lys Phe Lys Gly Gly
 20 25 30
 Phe Arg Gln Gln Asn Ser Pro Gln Ser Ile Tyr Gln His Asn Pro Tyr

35 40 45
 Gln Asn Pro Asn Asn Val Leu Ile Phe Leu Gln Lys Trp Lys Asn Arg
 50 55 60
 Cys *
 65

<210> 1431
 <211> 437
 <212> PRT
 <213> Homo sapiens

<400> 1431
 Met Leu Lys Val Ser Ala Val Leu Cys Val Cys Ala Ala Ala Trp Cys
 1 5 10 15
 Ser Gln Ser Leu Ala Ala Ala Ala Val Ala Ala Ala Gly Gly Arg
 20 25 30
 Ser Asp Gly Gly Asn Phe Leu Asp Asp Lys Gln Trp Leu Thr Thr Ile
 35 40 45
 Ser Gln Tyr Asp Lys Glu Val Gly Gln Trp Asn Lys Phe Arg Asp Glu
 50 55 60
 Val Glu Asp Asp Tyr Phe Arg Thr Trp Ser Pro Gly Lys Pro Phe Asp
 65 70 75 80
 Gln Ala Leu Asp Pro Ala Lys Asp Pro Cys Leu Lys Met Lys Cys Ser
 85 90 95
 Arg His Lys Val Cys Ile Ala Gln Asp Ser Gln Thr Ala Val Cys Ile
 100 105 110
 Ser His Arg Arg Leu Thr His Arg Met Lys Glu Ala Gly Val Asp His
 115 120 125
 Arg Gln Trp Arg Gly Pro Ile Leu Ser Thr Cys Lys Gln Cys Pro Val
 130 135 140
 Val Tyr Pro Ser Pro Val Cys Gly Ser Asp Gly His Thr Tyr Ser Phe
 145 150 155 160
 Gln Cys Lys Leu Glu Tyr Gln Ala Cys Val Leu Gly Lys Gln Ile Ser
 165 170 175
 Val Lys Cys Glu Gly His Cys Pro Cys Pro Ser Asp Lys Pro Thr Ser
 180 185 190
 Thr Ser Arg Asn Val Lys Arg Ala Cys Ser Asp Leu Glu Phe Arg Glu
 195 200 205
 Val Ala Asn Arg Leu Arg Asp Trp Phe Lys Ala Leu His Glu Ser Gly
 210 215 220
 Ser Gln Asn Lys Lys Thr Lys Thr Leu Leu Arg Pro Glu Arg Ser Arg
 225 230 235 240
 Phe Asp Thr Ser Ile Leu Pro Ile Cys Lys Asp Ser Leu Gly Trp Met
 245 250 255
 Phe Asn Arg Leu Asp Thr Asn Tyr Asp Leu Leu Leu Asp Gln Ser Glu
 260 265 270
 Leu Arg Ser Ile Tyr Leu Asp Lys Asn Glu Gln Cys Thr Lys Ala Phe
 275 280 285
 Phe Asn Ser Cys Asp Thr Tyr Lys Asp Ser Leu Ile Ser Asn Asn Glu
 290 295 300
 Trp Cys Tyr Cys Phe Gln Arg Gln Gln Asp Pro Pro Cys Gln Thr Glu
 305 310 315 320
 Leu Ser Asn Ile Gln Lys Arg Gln Gly Val Lys Lys Leu Leu Gly Gln
 325 330 335
 Tyr Ile Pro Leu Cys Asp Glu Asp Gly Tyr Tyr Lys Pro Thr Gln Cys
 340 345 350

His Gly Ser Val Gly Gln Cys Trp Cys Val Asp Arg Tyr Gly Asn Glu
 355 360 365
 Val Met Gly Ser Arg Ile Asn Gly Val Ala Asp Cys Ala Ile Asp Phe
 370 375 380
 Glu Ile Ser Gly Asp Phe Ala Ser Gly Asp Phe His Glu Trp Thr Asp
 385 390 395 400
 Asp Glu Asp Asp Glu Asp Asp Ile Met Asn Asp Glu Asp Glu Ile Glu
 405 410 415
 Asp Asp Asp Glu Asp Glu Gly Asp Asp Asp Asp Gly Gly Asp Asp His
 420 425 430
 Asp Val Tyr Ile *
 435 436

<210> 1432
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1432
 Met Ser Tyr Val Glu Ile Leu Ile Pro Val Leu Leu Cys Leu His Ala
 1 5 10 15
 Phe Phe Pro Ser Ser Arg Arg His Val Ala Trp Phe Leu Ile Phe Ile
 20 25 30
 Cys Lys Phe Phe Lys Phe Cys Leu Ile Leu Lys Phe Ile Ile Leu Ile
 35 40 45
 Leu Asn Tyr Leu *
 50 52

<210> 1433
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1433
 Met Glu Leu Lys Gly Phe Trp Leu Cys Leu Phe Leu Arg Phe Val Lys
 1 5 10 15
 Trp Phe Val Asn Lys Gly Met Ile Leu Cys Thr Leu Phe Tyr Asn Leu
 20 25 30
 Ile Tyr Ser Leu Tyr Asn Met Cys Trp Thr Val Leu Trp Ile Arg Lys
 35 40 45
 Tyr Gln Thr Leu Leu Lys Glu Ser Phe Phe Ser Leu Asn Thr Phe Leu
 50 55 60
 Phe Lys Asp Lys Ala Ser Thr Ser Ile Pro Leu *
 65 70 75

<210> 1434
 <211> 169
 <212> PRT
 <213> Homo sapiens

<400> 1434

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Met Glu Ser Trp Trp Gly Leu Pro Cys Leu Ala Phe Leu Cys Phe Leu
 1          5          10          15
Met His Ala Arg Gly Gln Arg Asp Phe Asp Leu Ala Asp Ala Leu Asp
          20          25          30
Asp Pro Glu Pro Thr Lys Lys Pro Asn Ser Asp Ile Tyr Pro Lys Pro
          35          40          45
Lys Pro Pro Tyr Tyr Pro Gln Pro Glu Asn Pro Asp Ser Gly Gly Asn
          50          55          60
Ile Tyr Pro Arg Pro Lys Pro Arg Pro Gln Pro Gln Pro Gly Asn Ser
          65          70          75          80
Gly Asn Ser Gly Gly Ser Tyr Phe Asn Asp Val Asp Arg Asp Asp Gly
          85          90          95
Arg Tyr Pro Pro Arg Pro Arg Pro Arg Pro Pro Ala Gly Gly Gly Gly
          100          105          110
Gly Gly Tyr Ser Ser Tyr Gly Asn Ser Asp Asn Thr His Gly Gly Asp
          115          120          125
His His Ser Thr Tyr Gly Asn Pro Glu Gly Asn Met Val Ala Lys Ile
          130          135          140
Val Ser Pro Ile Val Ser Val Val Val Val Thr Leu Leu Gly Ala Ala
          145          150          155          160
Ala Gln Leu Phe Gln Thr Lys Gln *
          165          168

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<210> 1435

<211> 162

<212> PRT

<213> Homo sapiens

<400> 1435

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Met Arg Phe Val Thr Leu Ser Ser Ala Cys Leu Cys Pro Cys Pro Leu
 1          5          10          15
Gly Pro Cys Trp Thr Arg His Pro Ser Tyr Gly Asn Leu His Glu Ala
          20          25          30
Ser Thr Ser Leu Pro Pro Arg His Trp Thr Gly Ala Arg Lys Trp Asn
          35          40          45
Glu Ser Ser His Cys Leu Lys Ser Trp Arg Pro Ser Ser Ala Ser Gly
          50          55          60
Ser Pro Glu Asn Leu Gly Ser Asp Arg Arg Thr Glu Thr Glu Gly Arg
          65          70          75          80
Glu Arg Asp Cys Asp Arg Glu Ala Glu Glu Gly Asp Arg Val Arg Glu
          85          90          95
Glu Gln Asn Ser Leu Gln Trp Glu Gln Arg Gln Lys Cys Gly Gly Pro
          100          105          110
Thr Gly Arg Gly Gly Arg Glu Gly Glu Gly Arg Arg Glu Gly Gln Leu
          115          120          125
Pro Val Gln Val Ala Val Arg Ala Leu Gly Leu Gly Arg Gly Thr Leu
          130          135          140
Leu Leu Leu Ala Ser His Thr Gly Ser Ile Arg Gly Pro Arg Glu Gln
          145          150          155          160
Val Ser
          162

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<210> 1436

<211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1436
 Met Trp Ile Val Leu Leu Gly Gly Phe Val Gly Pro Leu Tyr Leu Thr
 1 5 10 15
 Pro Ala Pro Ser Pro Cys Thr His Thr Leu Gly Val Arg Ala Val Pro
 20 25 30
 Leu Val Thr Gly Leu Thr Ser Gln Leu Trp Leu Asn Ala Ala Gly Glu
 35 40 45
 Ser Leu Thr Tyr Arg Met Trp Ser Met Ala Ser Met Thr Glu Gln Pro
 50 55 60
 Glu Leu Ser Glu Met Tyr Met Leu Pro Thr Leu His Glu
 65 70 75 77

<210> 1437
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 1437
 Met Cys Ser Leu Pro Arg His Leu Leu Phe Leu Ile Ile Phe Arg Ala
 1 5 10 15
 Tyr Ser Leu Ala Val Asp Leu Ser Thr His Ser Leu Thr Thr Ala Lys
 20 25 30
 Phe Pro Ser Pro Ile Val Leu Pro Thr Leu Tyr Arg Ser Val Ile Val
 35 40 45
 Ala Gly Ile Trp Lys Pro Ser Ser Asp Thr Ser Ser Pro Gly Pro Ser
 50 55 60
 Phe Ser Ser Ile Glu Leu Gln Thr Leu Val Asp Ala Ser Asp Val Glu
 65 70 75 80
 Glu Pro Pro Cys *
 84

<210> 1438
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1438
 Met Ile Gly Asp Ile Leu Leu Phe Gly Thr Leu Leu Met Asn Ala Gly
 1 5 10 15
 Ala Val Leu Asn Phe Lys Leu Lys Lys Lys Asp Thr Gln Gly Phe Gly
 20 25 30
 Glu Glu Ser Arg Glu Pro Ser Thr Gly Asp Asn Ile Arg Glu Phe Leu
 35 40 45
 Leu Ser Leu Arg Tyr Phe Arg Ile Phe Ile Ala Leu Trp Asn Ile Phe
 50 55 60
 Met Met Phe Cys Met Ile Val Leu Phe Gly Ser *
 65 70 75

<210> 1439
 <211> 425
 <212> PRT
 <213> Homo sapiens

<400> 1439
 Met Ser Leu Thr Ile Trp Thr Val Cys Gly Val Leu Ser Leu Phe Gly
 1 5 10 15
 Ala Leu Ser Tyr Ala Glu Leu Gly Thr Thr Ile Lys Lys Ser Gly Gly
 20 25 30
 His Tyr Thr Tyr Ile Leu Glu Val Phe Gly Pro Leu Pro Ala Phe Val
 35 40 45
 Arg Val Trp Val Glu Leu Leu Ile Ile Arg Pro Ala Ala Thr Ala Val
 50 55 60
 Ile Ser Leu Ala Phe Gly Arg Tyr Ile Leu Glu Pro Phe Phe Ile Gln
 65 70 75 80
 Cys Glu Ile Pro Glu Leu Ala Ile Lys Leu Ile Thr Ala Val Gly Ile
 85 90 95
 Thr Val Val Met Val Leu Asn Ser Met Ser Val Ser Trp Ser Ala Arg
 100 105 110
 Ile Gln Ile Phe Leu Thr Phe Cys Lys Leu Thr Ala Ile Leu Ile Ile
 115 120 125
 Ile Val Pro Gly Val Met Gln Leu Ile Lys Gly Gln Thr Gln Asn Phe
 130 135 140
 Lys Asp Ala Phe Ser Gly Arg Asp Ser Ser Ile Thr Arg Leu Pro Leu
 145 150 155 160
 Ala Phe Tyr Tyr Gly Met Tyr Ala Tyr Ala Gly Trp Phe Tyr Leu Asn
 165 170 175
 Phe Val Thr Glu Glu Val Glu Asn Pro Glu Lys Thr Ile Pro Leu Ala
 180 185 190
 Ile Cys Ile Ser Met Ala Ile Val Thr Ile Gly Tyr Val Leu Thr Asn
 195 200 205
 Val Ala Tyr Phe Thr Thr Ile Asn Ala Glu Glu Leu Leu Leu Ser Asn
 210 215 220
 Ala Val Ala Val Thr Phe Ser Glu Arg Leu Leu Gly Asn Phe Ser Leu
 225 230 235 240
 Ala Val Pro Ile Phe Val Ala Leu Ser Cys Phe Gly Ser Met Asn Gly
 245 250 255
 Gly Val Phe Ala Val Ser Arg Leu Phe Tyr Val Ala Ser Arg Glu Gly
 260 265 270
 His Leu Pro Glu Ile Leu Ser Met Ile His Val Arg Lys His Thr Pro
 275 280 285
 Leu Pro Ala Val Ile Val Leu His Pro Leu Thr Met Ile Met Leu Phe
 290 295 300
 Ser Gly Asp Leu Asp Ser Leu Leu Asn Phe Leu Ser Phe Ala Arg Trp
 305 310 315 320
 Leu Phe Ile Gly Leu Ala Val Ala Gly Leu Ile Tyr Leu Arg Tyr Lys
 325 330 335
 Cys Pro Asp Met His Arg Pro Phe Lys Val Pro Leu Phe Ile Pro Ala
 340 345 350
 Leu Phe Ser Phe Thr Cys Leu Phe Met Val Ala Leu Ser Leu Tyr Ser
 355 360 365
 Asp Pro Phe Ser Thr Gly Ile Gly Phe Val Ile Thr Leu Thr Gly Val
 370 375 380
 Pro Ala Tyr Tyr Leu Phe Ile Ile Trp Asp Lys Lys Pro Arg Trp Phe
 385 390 395 400

Arg Ile Met Ser Glu Lys Ile Thr Arg Thr Leu Gln Ile Ile Leu Glu
 405 410 415
 Val Val Pro Glu Glu Asp Lys Leu *
 420 424

<210> 1440
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 1440
 Met Ser Val Phe Trp Gly Phe Val Gly Phe Leu Val Pro Trp Phe Ile
 1 5 10 15
 Pro Lys Gly Pro Asn Arg Gly Val Ile Ile Thr Met Leu Val Thr Cys
 20 25 30
 Ser Val Cys Cys Tyr Leu Phe Trp Leu Ile Ala Ile Leu Ala Gln Leu
 35 40 45
 Asn Pro Leu Phe Gly Pro Gln Leu Lys Asn Glu Thr Ile Trp Tyr Leu
 50 55 60
 Lys Tyr His Trp Pro *
 65 69

<210> 1441
 <211> 1691
 <212> PRT
 <213> Homo sapiens

<400> 1441
 Met Trp Ser Leu His Ile Val Leu Met Arg Cys Ser Phe Arg Leu Thr
 1 5 10 15
 Lys Ser Leu Ala Thr Gly Pro Trp Ser Leu Ile Leu Ile Leu Phe Ser
 20 25 30
 Val Gln Tyr Val Tyr Gly Ser Gly Lys Lys Tyr Ile Gly Pro Cys Gly
 35 40 45
 Gly Arg Asp Cys Ser Val Cys His Cys Val Pro Glu Lys Gly Ser Arg
 50 55 60
 Gly Pro Pro Gly Pro Pro Gly Pro Gln Gly Pro Ile Gly Pro Leu Gly
 65 70 75 80
 Ala Pro Gly Pro Ile Gly Leu Ser Gly Glu Lys Gly Met Arg Gly Asp
 85 90 95
 Arg Gly Pro Pro Gly Ala Ala Gly Asp Lys Gly Asp Lys Gly Pro Thr
 100 105 110
 Gly Val Pro Gly Phe Pro Gly Leu Asp Gly Ile Pro Gly His Pro Gly
 115 120 125
 Pro Pro Gly Pro Arg Gly Lys Pro Gly Met Ser Gly His Asn Gly Ser
 130 135 140
 Arg Gly Asp Pro Gly Phe Pro Gly Gly Arg Gly Ala Leu Gly Pro Gly
 145 150 155 160
 Gly Pro Leu Gly His Pro Gly Glu Lys Gly Glu Lys Gly Asn Ser Val
 165 170 175
 Phe Ile Leu Gly Ala Val Lys Gly Ile Gln Gly Asp Arg Gly Asp Pro
 180 185 190
 Gly Leu Pro Gly Leu Pro Gly Ser Trp Gly Ala Gly Gly Pro Ala Gly

195 200 205
 Pro Thr Gly Tyr Pro Gly Glu Pro Gly Leu Val Gly Pro Pro Gly Gln
 210 215 220
 Pro Gly Arg Pro Gly Leu Lys Gly Asn Pro Gly Val Gly Val Lys Gly
 225 230 235 240
 Gln Met Gly Asp Pro Gly Glu Val Gly Gln Gln Gly Ser Pro Gly Pro
 245 250 255
 Thr Leu Leu Val Glu Pro Pro Asp Phe Cys Leu Tyr Lys Gly Glu Lys
 260 265 270
 Gly Ile Lys Gly Ile Pro Gly Met Val Gly Leu Pro Gly Pro Pro Gly
 275 280 285
 Arg Lys Gly Glu Ser Gly Ile Gly Ala Lys Gly Glu Lys Gly Ile Pro
 290 295 300
 Gly Phe Pro Gly Pro Arg Gly Asp Pro Gly Ser Tyr Gly Ser Pro Gly
 305 310 315 320
 Phe Pro Gly Leu Lys Gly Glu Leu Gly Leu Val Gly Asp Pro Gly Leu
 325 330 335
 Phe Gly Leu Ile Gly Pro Lys Gly Asp Pro Gly Asn Arg Gly His Pro
 340 345 350
 Gly Pro Pro Gly Val Leu Val Thr Pro Pro Leu Pro Leu Lys Gly Pro
 355 360 365
 Pro Gly Asp Pro Gly Phe Pro Gly Arg Tyr Gly Glu Thr Gly Asp Val
 370 375 380
 Gly Pro Pro Gly Pro Pro Gly Leu Leu Gly Arg Pro Gly Glu Ala Cys
 385 390 395 400
 Ala Gly Met Ile Gly Pro Pro Gly Pro Gln Gly Phe Pro Gly Leu Pro
 405 410 415
 Gly Leu Pro Gly Glu Ala Gly Ile Pro Gly Arg Pro Asp Ser Ala Pro
 420 425 430
 Gly Lys Pro Gly Lys Pro Gly Ser Pro Gly Leu Pro Gly Ala Pro Gly
 435 440 445
 Leu Gln Gly Leu Pro Gly Ser Ser Val Ile Tyr Cys Ser Val Gly Asn
 450 455 460
 Pro Gly Pro Gln Gly Ile Lys Gly Lys Val Gly Pro Pro Gly Gly Arg
 465 470 475 480
 Gly Pro Lys Gly Glu Lys Gly Asn Glu Gly Leu Cys Ala Cys Glu Pro
 485 490 495
 Gly Pro Met Gly Pro Pro Gly Pro Pro Gly Leu Pro Gly Arg Gln Gly
 500 505 510
 Ser Lys Gly Asp Leu Gly Leu Pro Gly Trp Leu Gly Thr Lys Gly Asp
 515 520 525
 Pro Gly Pro Pro Gly Ala Glu Gly Pro Pro Gly Leu Pro Gly Lys His
 530 535 540
 Gly Ala Ser Gly Pro Pro Gly Asn Lys Gly Ala Lys Gly Asp Met Val
 545 550 555 560
 Val Ser Arg Val Lys Gly His Lys Gly Glu Arg Gly Pro Asp Gly Pro
 565 570 575
 Pro Gly Phe Pro Gly Gln Pro Gly Ser His Gly Arg Asp Gly His Ala
 580 585 590
 Gly Glu Lys Gly Asp Pro Gly Pro Pro Gly Asp His Glu Asp Ala Thr
 595 600 605
 Pro Gly Gly Lys Gly Phe Pro Gly Pro Leu Gly Pro Pro Gly Lys Ala
 610 615 620
 Gly Pro Val Gly Pro Pro Gly Leu Gly Phe Pro Gly Pro Pro Gly Glu
 625 630 635 640
 Arg Gly His Pro Gly Val Pro Gly His Pro Gly Val Arg Gly Pro Asp
 645 650 655
 Gly Leu Lys Gly Gln Lys Gly Asp Thr Ile Ser Cys Asn Val Thr Tyr
 660 665 670

Pro Gly Arg His Gly Pro Pro Gly Phe Asp Gly Pro Pro Gly Pro Lys
 675 680 685
 Gly Phe Pro Gly Pro Gln Gly Ala Pro Gly Leu Ser Gly Ser Asp Gly
 690 695 700
 His Lys Gly Arg Pro Gly Thr Pro Gly Thr Ala Glu Ile Pro Gly Pro
 705 710 715 720
 Pro Gly Phe Arg Gly Asp Met Gly Asp Pro Gly Phe Gly Gly Glu Lys
 725 730 735
 Gly Ser Ser Pro Val Gly Pro Pro Gly Pro Pro Gly Ser Pro Gly Val
 740 745 750
 Asn Gly Gln Lys Gly Ile Pro Gly Asp Pro Ala Phe Gly His Leu Gly
 755 760 765
 Pro Pro Gly Lys Arg Gly Leu Ser Gly Val Pro Gly Ile Lys Gly Pro
 770 775 780
 Arg Gly Asp Pro Gly Cys Pro Gly Ala Glu Gly Pro Ala Gly Ile Pro
 785 790 795 800
 Gly Phe Leu Gly Leu Lys Gly Pro Lys Gly Arg Glu Gly His Ala Gly
 805 810 815
 Phe Pro Gly Val Pro Gly Pro Pro Gly His Ser Cys Glu Arg Gly Ala
 820 825 830
 Pro Gly Ile Pro Gly Gln Pro Gly Leu Pro Gly Tyr Pro Gly Ser Pro
 835 840 845
 Gly Ala Pro Gly Gly Lys Gly Gln Pro Gly Asp Val Gly Pro Pro Gly
 850 855 860
 Pro Ala Gly Met Lys Gly Leu Pro Gly Leu Pro Gly Arg Pro Gly Ala
 865 870 875 880
 His Gly Pro Pro Gly Leu Pro Gly Ile Pro Gly Pro Phe Gly Asp Asp
 885 890 895
 Gly Leu Pro Gly Pro Pro Gly Pro Lys Gly Pro Arg Gly Leu Pro Gly
 900 905 910
 Phe Pro Gly Phe Pro Gly Glu Arg Gly Lys Pro Gly Ala Glu Gly Cys
 915 920 925
 Pro Gly Ala Lys Gly Glu Pro Gly Glu Lys Gly Met Ser Gly Leu Pro
 930 935 940
 Gly Asp Arg Gly Leu Arg Gly Ala Lys Gly Ala Ile Gly Pro Pro Gly
 945 950 955 960
 Asp Glu Gly Glu Met Ala Ile Ile Ser Gln Lys Gly Thr Pro Gly Glu
 965 970 975
 Pro Gly Pro Pro Gly Asp Asp Gly Phe Pro Gly Glu Arg Gly Asp Lys
 980 985 990
 Gly Thr Pro Gly Met Gln Gly Arg Arg Gly Glu Leu Gly Arg Tyr Gly
 995 1000 1005
 Pro Pro Gly Phe His Arg Gly Glu Pro Gly Glu Lys Gly Gln Pro Gly
 1010 1015 1020
 Pro Pro Gly Pro Pro Gly Pro Pro Gly Ser Thr Gly Leu Arg Gly Phe
 1025 1030 1035 1040
 Ile Gly Phe Pro Gly Leu Pro Gly Asp Gln Gly Glu Pro Gly Ser Pro
 1045 1050 1055
 Gly Pro Pro Gly Phe Ser Gly Ile Asp Gly Ala Arg Gly Pro Lys Gly
 1060 1065 1070
 Asn Lys Gly Asp Pro Ala Ser His Phe Gly Pro Pro Gly Pro Lys Gly
 1075 1080 1085
 Glu Pro Gly Ser Pro Gly Cys Pro Gly His Phe Gly Ala Ser Gly Glu
 1090 1095 1100
 Gln Gly Leu Pro Gly Ile Gln Gly Pro Arg Gly Ser Pro Gly Arg Pro
 1105 1110 1115 1120
 Gly Pro Pro Gly Ser Ser Gly Pro Pro Gly Cys Pro Gly Asp His Gly
 1125 1130 1135
 Met Pro Gly Leu Arg Gly Gln Pro Gly Glu Met Gly Asp Pro Gly Pro

1140 1145 1150
 Arg Gly Leu Gln Gly Asp Pro Gly Ile Pro Gly Pro Gly Ile Lys
 1155 1160 1165
 Gly Pro Ser Gly Ser Pro Gly Leu Asn Gly Leu His Gly Leu Lys Gly
 1170 1175 1180
 Gln Lys Gly Thr Lys Gly Ala Ser Gly Leu His Asp Val Gly Pro Pro
 1185 1190 1195 1200
 Gly Pro Val Gly Ile Pro Gly Leu Lys Gly Glu Arg Gly Asp Pro Gly
 1205 1210 1215
 Ser Pro Gly Ile Ser Pro Pro Gly Pro Arg Gly Lys Lys Gly Pro Pro
 1220 1225 1230
 Gly Pro Pro Gly Ser Ser Gly Pro Pro Gly Pro Ala Gly Ala Thr Gly
 1235 1240 1245
 Arg Ala Pro Lys Asp Ile Pro Asp Pro Gly Pro Pro Gly Asp Gln Gly
 1250 1255 1260
 Pro Pro Gly Pro Asp Gly Pro Arg Gly Ala Pro Gly Pro Pro Gly Leu
 1265 1270 1275 1280
 Pro Gly Ser Val Asp Leu Leu Arg Gly Glu Pro Gly Asp Cys Gly Leu
 1285 1290 1295
 Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Gly Tyr Lys
 1300 1305 1310
 Gly Phe Pro Gly Cys Asp Gly Lys Asp Gly Gln Lys Gly Pro Val Gly
 1315 1320 1325
 Phe Pro Gly Pro Gln Gly Pro His Gly Phe Pro Gly Pro Pro Gly Glu
 1330 1335 1340
 Lys Gly Leu Pro Gly Pro Pro Gly Arg Lys Gly Pro Thr Gly Leu Pro
 1345 1350 1355 1360
 Gly Pro Arg Gly Glu Pro Gly Pro Pro Ala Asp Val Asp Asp Cys Pro
 1365 1370 1375
 Arg Ile Pro Gly Leu Pro Gly Ala Pro Gly Met Arg Gly Pro Glu Gly
 1380 1385 1390
 Ala Met Gly Leu Pro Gly Met Arg Gly Pro Ser Gly Pro Gly Cys Lys
 1395 1400 1405
 Gly Glu Pro Gly Leu Asp Gly Arg Arg Gly Val Asp Gly Val Pro Gly
 1410 1415 1420
 Ser Pro Gly Pro Pro Gly Arg Lys Gly Asp Thr Gly Glu Asp Gly Tyr
 1425 1430 1435 1440
 Pro Gly Gly Pro Gly Pro Pro Gly Pro Ile Gly Asp Pro Gly Pro Lys
 1445 1450 1455
 Gly Phe Gly Pro Gly Tyr Leu Gly Gly Phe Leu Leu Val Leu His Ser
 1460 1465 1470
 Gln Thr Asp Gln Glu Pro Thr Cys Pro Leu Gly Met Pro Arg Leu Trp
 1475 1480 1485
 Thr Gly Tyr Ser Leu Leu Tyr Leu Glu Gly Gln Glu Lys Ala His Asn
 1490 1495 1500
 Gln Asp Leu Gly Leu Ala Gly Ser Cys Leu Pro Val Phe Ser Thr Leu
 1505 1510 1515 1520
 Pro Phe Ala Tyr Cys Asn Ile His Gln Val Cys His Tyr Ala Gln Arg
 1525 1530 1535
 Asn Asp Arg Ser Tyr Trp Leu Ala Ser Ala Ala Pro Leu Pro Met Met
 1540 1545 1550
 Pro Leu Ser Glu Glu Ala Ile Arg Pro Tyr Val Ser Arg Cys Ala Val
 1555 1560 1565
 Cys Glu Ala Pro Ala Gln Ala Val Ala Val His Ser Gln Asp Gln Ser
 1570 1575 1580
 Ile Pro Pro Cys Pro Gln Thr Trp Arg Ser Leu Trp Ile Gly Tyr Ser
 1585 1590 1595 1600
 Phe Leu Met His Thr Gly Ala Gly Asp Gln Gly Gly Gly Gln Ala Leu
 1605 1610 1615

Met Ser Pro Gly Ser Cys Leu Glu Asp Phe Arg Ala Ala Pro Phe Leu
 1620 1625 1630
 Glu Cys Gln Gly Arg Gln Gly Thr Cys His Phe Phe Ala Asn Lys Tyr
 1635 1640 1645
 Ser Phe Trp Leu Thr Thr Val Lys Ala Asp Phe Glu Phe Ser Ser Ala
 1650 1655 1660
 Pro Ala Pro Asp Thr Leu Lys Glu Ser Gln Ala Gln Arg Gln Lys Ile
 1665 1670 1675 1680
 Ser Arg Cys Gln Val Cys Val Lys Tyr Ser *
 1685 1690

<210> 1442
 <211> 153
 <212> PRT
 <213> Homo sapiens

<400> 1442
 Met Gly Val Met Ala Pro Arg Thr Leu Leu Leu Leu Leu Gly Ala
 1 5 10 15
 Leu Ala Leu Thr Glu Thr Trp Ala Gly Glu Cys Gly Val Gly Arg Glu
 20 25 30
 Arg Ala Ser Ala Gly Arg Ser Glu Trp Pro Ala Arg Pro Gly Glu Pro
 35 40 45
 Arg Arg Glu Glu Gly Arg Ala Gly Leu Ser Leu Ser Ser Pro Pro Gly
 50 55 60
 Ser His Ser Leu Arg Tyr Phe Ser Thr Ala Val Ser Gln Pro Gly Arg
 65 70 75 80
 Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Glu Phe
 85 90 95
 Val Arg Phe Asp Ser Asp Ser Val Ser Pro Arg Met Glu Arg Arg Ala
 100 105 110
 Pro Trp Val Glu Gln Glu Gly Leu Glu Tyr Trp Asp Gln Glu Thr Arg
 115 120 125
 Asn Ala Lys Gly His Ala Gln Ile Tyr Arg Val Asn Leu Arg Thr Leu
 130 135 140
 Leu Arg Tyr Tyr Asn Gln Ser Glu Ala
 145 150 153

<210> 1443
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1443
 Met Ser Leu Leu Cys Leu Lys Phe Phe Ser Gly Leu Trp Thr Ile Thr
 1 5 10 15
 Phe Ser Lys Gly Ala Lys Ile Ile His Trp Gly Arg Ser Leu Phe Asn
 20 25 30
 Trp Ile Ser Met Cys Lys Arg Met Lys Leu Asp Pro Tyr Ser Tyr His
 35 40 45
 Thr Gln Lys Leu Thr Gln Asn Gly Ser *
 50 55 57

<210> 1444
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 1444
 Met Pro Val Pro Leu Ala Tyr Phe Gln Ser Ser Ile Val Leu Phe Pro
 1 5 10 15
 Leu Ile Phe Ser Leu Val Thr Cys Val Ser Leu Asp Gly Glu Pro Lys
 20 25 30
 Ser Val Val Gly Val Ile Ser Ile Ser Ala Tyr Tyr Arg Ala Ile Ser
 35 40 45
 Ile Leu Leu Ile Phe Ser Lys Ser Phe Cys Cys Ala Ser Leu Ala Gly
 50 55 60
 Val Leu Val Ile *
 65 68

<210> 1445
 <211> 826
 <212> PRT
 <213> Homo sapiens

<400> 1445
 Met Gly Trp Leu Cys Ser Gly Leu Leu Phe Pro Val Ser Cys Leu Val
 1 5 10 15
 Leu Leu Gln Val Ala Ser Ser Gly Asn Met Lys Val Leu Gln Glu Pro
 20 25 30
 Thr Cys Val Ser Asp Tyr Met Ser Ile Ser Thr Cys Glu Trp Lys Met
 35 40 45
 Asn Gly Pro Thr Asn Cys Ser Thr Glu Leu Arg Leu Leu Tyr Gln Leu
 50 55 60
 Val Phe Leu Leu Ser Glu Ala His Thr Cys Val Pro Glu Asn Asn Gly
 65 70 75 80
 Gly Ala Gly Cys Val Cys His Leu Leu Met Asp Asp Val Val Ser Ala
 85 90 95
 Asp Asn Tyr Thr Leu Asp Leu Trp Ala Gly Gln Gln Leu Leu Trp Lys
 100 105 110
 Gly Ser Phe Lys Pro Ser Glu His Val Lys Pro Arg Ala Pro Gly Asn
 115 120 125
 Leu Thr Val His Thr Asn Val Ser Asp Thr Leu Leu Leu Thr Trp Ser
 130 135 140
 Asn Pro Tyr Pro Pro Asp Asn Tyr Leu Tyr Asn His Leu Thr Tyr Ala
 145 150 155 160
 Val Asn Ile Trp Ser Glu Asn Asp Pro Ala Asp Phe Arg Ile Tyr Asn
 165 170 175
 Val Thr Tyr Leu Glu Pro Ser Leu Arg Ile Ala Ala Ser Thr Leu Lys
 180 185 190
 Ser Gly Ile Ser Tyr Arg Ala Arg Val Arg Ala Trp Ala Gln Cys Tyr
 195 200 205
 Asn Thr Thr Trp Ser Glu Trp Ser Pro Ser Thr Lys Trp His Asn Ser
 210 215 220
 Tyr Arg Glu Pro Phe Glu Gln His Leu Leu Leu Gly Val Ser Val Ser
 225 230 235 240

Cys Ile Val Ile Leu Ala Val Cys Leu Leu Cys Tyr Val Ser Ile Thr
 245 250 255
 Lys Ile Lys Lys Glu Trp Trp Asp Gln Ile Pro Asn Pro Ala Arg Ser
 260 265 270
 Arg Leu Val Ala Ile Ile Ile Gln Asp Ala Gln Gly Ser Gln Trp Glu
 275 280 285
 Lys Arg Ser Arg Gly Gln Glu Pro Ala Lys Cys Pro His Trp Lys Asn
 290 295 300
 Cys Leu Thr Lys Leu Leu Pro Cys Phe Leu Glu His Asn Met Lys Arg
 305 310 315 320
 Asp Glu Asp Pro His Lys Ala Ala Lys Glu Met Pro Phe Gln Gly Ser
 325 330 335
 Gly Lys Ser Ala Trp Cys Pro Val Glu Ile Ser Lys Thr Val Leu Trp
 340 345 350
 Pro Glu Ser Ile Ser Val Val Arg Cys Val Glu Leu Phe Glu Ala Pro
 355 360 365
 Val Glu Cys Glu Glu Glu Glu Val Glu Glu Glu Lys Gly Ser Phe
 370 375 380
 Cys Ala Ser Pro Glu Ser Ser Arg Asp Asp Phe Gln Glu Gly Arg Glu
 385 390 395 400
 Gly Ile Val Ala Arg Leu Thr Glu Ser Leu Phe Leu Asp Leu Leu Gly
 405 410 415
 Glu Glu Asn Gly Gly Phe Cys Gln Gln Asp Met Gly Glu Ser Cys Leu
 420 425 430
 Leu Pro Pro Ser Gly Ser Thr Ser Ala His Met Pro Trp Asp Glu Phe
 435 440 445
 Pro Ser Ala Gly Pro Lys Glu Ala Pro Pro Trp Gly Lys Glu Gln Pro
 450 455 460
 Leu His Leu Glu Pro Ser Pro Pro Ala Ser Pro Thr Gln Ser Pro Asp
 465 470 475 480
 Asn Leu Thr Cys Thr Glu Thr Pro Leu Val Ile Ala Gly Asn Pro Ala
 485 490 495
 Tyr Arg Ser Phe Ser Asn Ser Leu Ser Gln Ser Pro Cys Pro Arg Glu
 500 505 510
 Leu Gly Pro Asp Pro Leu Leu Ala Arg His Leu Glu Glu Val Glu Pro
 515 520 525
 Glu Met Pro Cys Val Pro Gln Leu Ser Glu Pro Thr Thr Val Pro Gln
 530 535 540
 Pro Glu Pro Glu Thr Trp Glu Gln Ile Leu Arg Arg Asn Val Leu Gln
 545 550 555 560
 His Gly Ala Ala Ala Ala Pro Val Ser Ala Pro Thr Ser Gly Tyr Gln
 565 570 575
 Glu Phe Val His Ala Val Glu Gln Gly Thr Gln Ala Ser Ala Val
 580 585 590
 Val Gly Leu Gly Pro Pro Gly Glu Ala Gly Tyr Lys Ala Phe Ser Ser
 595 600 605
 Leu Leu Ala Ser Ser Ala Val Ser Pro Glu Lys Cys Gly Phe Gly Ala
 610 615 620
 Ser Ser Gly Glu Glu Gly Tyr Lys Pro Phe Gln Asp Leu Ile Pro Gly
 625 630 635 640
 Cys Pro Gly Asp Pro Ala Pro Val Pro Val Pro Leu Phe Thr Phe Gly
 645 650 655
 Leu Asp Arg Glu Pro Pro Arg Ser Pro Gln Ser Ser His Leu Pro Ser
 660 665 670
 Ser Ser Pro Glu His Leu Gly Leu Glu Pro Gly Glu Lys Val Glu Asp
 675 680 685
 Met Pro Lys Pro Pro Leu Pro Gln Glu Gln Ala Thr Asp Pro Leu Val
 690 695 700
 Asp Ser Leu Gly Ser Gly Ile Val Tyr Ser Ala Leu Thr Cys His Leu

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705          710          715          720
Cys Gly His Leu Lys Gln Cys His Gly Gln Glu Asp Gly Gly Gln Thr
725          730          735
Pro Val Met Ala Ser Pro Cys Cys Gly Cys Cys Cys Gly Asp Arg Ala
740          745          750
Ser Pro Pro Thr Thr Pro Leu Arg Ala Pro Asp Pro Ser Pro Gly Gly
755          760          765
Val Pro Leu Glu Ala Ser Leu Cys Pro Ala Ser Leu Ala Pro Ser Gly
770          775          780
Ile Ser Glu Lys Ser Lys Ser Ser Ser Ser Phe His Pro Ala Pro Gly
785          790          795          800
Asn Ala Gln Ser Ser Ser Gln Thr Pro Lys Ile Val Asn Phe Val Ser
805          810          815
Val Gly Pro Thr Tyr Met Arg Val Ser *
820          825

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<210> 1446
<211> 367
<212> PRT
<213> Homo sapiens

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<400> 1446
Met Ala Leu Arg Phe Leu Leu Gly Phe Leu Leu Ala Gly Val Asp Leu
1          5          10          15
Gly Val Tyr Leu Met Arg Leu Glu Leu Cys Asp Pro Thr Gln Arg Leu
20          25          30
Arg Val Ala Leu Ala Gly Glu Leu Val Gly Val Gly Gly His Phe Leu
35          40          45
Phe Leu Gly Leu Ala Leu Val Ser Lys Asp Trp Arg Phe Leu Gln Arg
50          55          60
Met Ile Thr Ala Pro Cys Ile Leu Phe Leu Phe Tyr Gly Trp Pro Gly
65          70          75          80
Leu Phe Leu Glu Ser Ala Arg Trp Leu Ile Val Lys Arg Gln Ile Glu
85          90          95
Glu Ala Gln Ser Val Leu Arg Ile Leu Ala Glu Arg Asn Arg Pro His
100          105          110
Gly Gln Met Leu Gly Glu Glu Ala Gln Glu Ala Leu Gln Asp Leu Glu
115          120          125
Asn Thr Cys Pro Leu Pro Ala Thr Ser Ser Phe Ser Phe Ala Ser Leu
130          135          140
Leu Asn Tyr Arg Asn Ile Trp Lys Asn Leu Leu Ile Leu Gly Phe Thr
145          150          155          160
Asn Phe Ile Ala His Ala Ile Arg His Cys Tyr Gln Pro Val Gly Gly
165          170          175
Gly Gly Ser Pro Ser Asp Phe Tyr Leu Cys Ser Leu Leu Ala Ser Gly
180          185          190
Thr Ala Ala Leu Ala Cys Val Phe Leu Gly Val Thr Val Asp Arg Phe
195          200          205
Gly Arg Arg Gly Ile Leu Leu Leu Ser Met Thr Leu Thr Gly Ile Ala
210          215          220
Ser Leu Val Leu Leu Gly Leu Trp Asp Tyr Leu Asn Glu Ala Ala Ile
225          230          235          240
Thr Thr Phe Ser Val Leu Gly Leu Phe Ser Ser Gln Ala Ala Ala Ile
245          250          255
Leu Ser Thr Leu Leu Ala Ala Glu Val Ile Pro Thr Thr Val Arg Gly
260          265          270

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Arg Gly Leu Gly Leu Ile Met Ala Leu Gly Ala Leu Gly Gly Leu Ser
 275 280 285
 Gly Pro Ala Gln Arg Leu His Met Gly His Gly Ala Phe Leu Gln His
 290 295 300
 Val Val Leu Ala Ala Cys Ala Leu Leu Cys Ile Leu Ser Ile Met Leu
 305 310 315 320
 Leu Pro Glu Thr Lys Arg Lys Leu Leu Pro Glu Val Leu Arg Asp Gly
 325 330 335
 Glu Leu Cys Arg Arg Pro Ser Leu Leu Arg Gln Pro Pro Pro Thr Arg
 340 345 350
 Cys Asp His Val Pro Leu Leu Ala Thr Pro Asn Pro Ala Leu *
 355 360 365 366

<210> 1447
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 1447
 Met Ala Ile Ser Trp Leu Gly Thr Trp Leu Leu Gln Ser His Arg His
 1 5 10 15
 Trp Ser Glu Pro Gln Leu Cys Arg Leu Pro Ala Arg His His Leu Ile
 20 25 30
 Asn Leu Asn Phe Met Val Ala Glu Gly Ile Gly Asp Arg Ala Trp His
 35 40 45
 Ile Ile Ser Ala Gln Leu Phe Met Thr Phe Ser Phe His Ala Val Ile
 50 55 60
 Leu Gln Thr Asp Leu Gly Glu Ala Gly Lys Tyr Lys Asp Lys *
 65 70 75 78

<210> 1448
 <211> 276
 <212> PRT
 <213> Homo sapiens

<400> 1448
 Met Val Trp Val Val Leu Leu Ser Leu Leu Cys Tyr Leu Val Leu Phe
 1 5 10 15
 Leu Cys Arg His Ser Ser His Arg Gly Val Phe Leu Ser Val Thr Ile
 20 25 30
 Leu Ile Tyr Leu Leu Met Gly Glu Met His Met Val Asp Thr Val Thr
 35 40 45
 Trp His Lys Met Arg Gly Ala Gln Met Ile Val Ala Met Lys Ala Val
 50 55 60
 Ser Leu Gly Phe Asp Leu Asp Arg Gly Glu Val Gly Thr Val Pro Ser
 65 70 75 80
 Pro Val Glu Phe Met Gly Tyr Leu Tyr Phe Val Gly Thr Ile Val Phe
 85 90 95
 Gly Pro Trp Ile Ser Phe His Ser Tyr Leu Gln Ala Val Gln Gly Arg
 100 105 110
 Pro Leu Ser Cys Arg Trp Leu Gln Lys Val Ala Arg Ser Leu Ala Leu
 115 120 125
 Ala Leu Leu Cys Leu Val Leu Ser Thr Cys Val Gly Pro Tyr Leu Phe

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      130              135              140
Pro Tyr Phe Ile Pro Leu Asn Gly Asp Arg Leu Leu Arg Lys Trp Leu
145              150              155              160
Arg Ala Tyr Glu Ser Ala Val Ser Phe His Phe Ser Asn Tyr Phe Val
      165              170              175
Gly Phe Leu Ser Glu Ala Thr Ala Thr Leu Ala Gly Ala Gly Phe Thr
      180              185              190
Glu Glu Lys Asp His Leu Glu Trp Asp Leu Thr Val Ser Lys Pro Leu
      195              200              205
Asn Val Glu Leu Pro Arg Ser Met Val Glu Val Val Thr Ser Trp Asn
210              215              220
Leu Pro Met Ser Tyr Trp Leu Asn Asn Tyr Gly Phe Lys Asn Ala Leu
225              230              235              240
Arg Leu Gly Thr Leu Leu Gly Cys Ala Gly His Leu Cys Ser Gln Arg
      245              250              255
Pro Ser Lys Leu Leu Lys Phe Pro Pro Gly Trp Gly Pro Cys Cys Pro
      260              265              270
Gly Phe Leu *
      275

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<210> 1449
<211> 597
<212> PRT
<213> Homo sapiens

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      <400> 1449
Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Ile Leu Lys Gly
  1              5              10              15
Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
      20              25              30
Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
      35              40              45
Ser Ser Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
      50              55              60
Val Trp Val Ser Arg Ile Asn Thr Asp Gly Ser Ser Thr Ser Tyr Ala
      65              70              75              80
Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
      85              90              95
Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
      100              105              110
Tyr Tyr Cys Ala Arg Ala Asp Asn Cys Ser Ser Thr Ser Cys Tyr Lys
      115              120              125
Cys Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
      130              135              140
Ser Ala Ser Ala Pro Thr Leu Phe Pro Leu Val Ser Cys Glu Asn Ser
145              150              155              160
Pro Ser Asp Thr Ser Ser Val Ala Val Gly Cys Leu Ala Gln Asp Phe
      165              170              175
Leu Pro Asp Ser Ile Thr Phe Ser Trp Lys Tyr Lys Asn Asn Ser Asp
      180              185              190
Ile Ser Ser Thr Arg Gly Phe Pro Ser Val Leu Arg Gly Gly Lys Tyr
      195              200              205
Ala Ala Thr Ser Gln Val Leu Leu Pro Ser Lys Asp Val Met Gln Gly
      210              215              220
Thr Asp Glu His Val Val Cys Lys Val Gln His Pro Asn Gly Asn Lys
225              230              235              240

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Glu Lys Asn Val Pro Leu Pro Val Ile Ala Glu Leu Pro Pro Lys Val
 245 250 255
 Ser Val Phe Val Pro Pro Arg Asp Gly Phe Phe Gly Asn Pro Arg Lys
 260 265 270
 Ser Lys Leu Ile Cys Gln Ala Thr Gly Phe Ser Pro Arg Gln Ile Gln
 275 280 285
 Val Ser Trp Leu Arg Glu Gly Lys Gln Val Gly Ser Gly Val Thr Thr
 290 295 300
 Asp Gln Val Gln Ala Glu Ala Lys Glu Ser Gly Pro Thr Thr Tyr Lys
 305 310 315 320
 Val Thr Ser Thr Leu Thr Ile Lys Glu Ser Asp Trp Leu Ser Gln Ser
 325 330 335
 Met Phe Thr Cys Arg Val Asp His Arg Gly Leu Thr Phe Gln Gln Asn
 340 345 350
 Ala Ser Ser Met Cys Val Pro Asp Gln Asp Thr Ala Ile Arg Val Phe
 355 360 365
 Ala Ile Pro Pro Ser Phe Ala Ser Ile Phe Leu Thr Lys Ser Thr Lys
 370 375 380
 Leu Thr Cys Leu Val Thr Asp Leu Thr Thr Tyr Asp Ser Val Thr Ile
 385 390 395 400
 Ser Trp Thr Arg Gln Asn Gly Glu Ala Val Lys Thr His Thr Asn Ile
 405 410 415
 Ser Glu Ser His Pro Asn Ala Thr Phe Ser Ala Val Gly Glu Ala Ser
 420 425 430
 Ile Cys Glu Asp Asp Trp Asn Ser Gly Glu Arg Phe Thr Cys Thr Val
 435 440 445
 Thr His Thr Asp Leu Pro Ser Pro Leu Lys Gln Thr Ile Ser Arg Pro
 450 455 460
 Lys Gly Val Ala Leu His Arg Pro Asp Val Tyr Leu Leu Pro Pro Ala
 465 470 475 480
 Arg Glu Gln Leu Asn Leu Arg Glu Ser Ala Thr Ile Thr Cys Leu Val
 485 490 495
 Thr Gly Phe Ser Pro Ala Asp Val Phe Val Gln Trp Met Gln Arg Gly
 500 505 510
 Gln Pro Leu Ser Pro Glu Lys Tyr Val Thr Ser Ala Pro Met Pro Glu
 515 520 525
 Pro Gln Ala Pro Gly Arg Tyr Phe Ala His Ser Ile Leu Thr Val Ser
 530 535 540
 Glu Glu Glu Trp Asn Thr Gly Glu Thr Tyr Thr Cys Val Val Ala His
 545 550 555 560
 Glu Ala Leu Pro Asn Arg Val Thr Glu Arg Thr Val Asp Lys Ser Thr
 565 570 575
 Gly Lys Pro Thr Leu Tyr Asn Val Ser Leu Val Met Ser Asp Thr Ala
 580 585 590
 Gly Thr Cys Tyr *
 595 596

<210> 1450

<211> 276

<212> PRT

<213> Homo sapiens

<400> 1450

Met Pro Ala Leu Arg Pro Ala Leu Leu Trp Ala Leu Leu Ala Leu Trp
 1 5 10 15
 Leu Cys Cys Ala Thr Pro Ala His Ala Leu Gln Cys Arg Asp Gly Tyr

```

      20      25      30
Glu Pro Cys Val Asn Glu Gly Met Cys Val Thr Tyr His Asn Gly Thr
      35      40      45
Gly Tyr Cys Lys Cys Pro Glu Gly Phe Leu Gly Glu Tyr Cys Gln His
      50      55      60
Arg Asp Pro Cys Glu Lys Asn Arg Cys Gln Asn Gly Gly Thr Cys Val
      65      70      75      80
Ala Gln Ala Met Leu Gly Lys Ala Thr Cys Arg Cys Ala Ser Gly Phe
      85      90      95
Thr Gly Glu Asp Cys Gln Tyr Ser Thr Ser His Pro Cys Phe Val Ser
      100      105      110
Arg Pro Cys Leu Asn Gly Gly Thr Cys His Met Leu Ser Arg Asp Thr
      115      120      125
Tyr Glu Cys Thr Cys Gln Val Gly Phe Thr Gly Lys Glu Cys Gln Trp
      130      135      140
Thr Asp Ala Cys Leu Ser His Pro Cys Ala Asn Gly Ser Thr Cys Thr
      145      150      155      160
Thr Val Ala Asn Gln Phe Ser Cys Lys Cys Leu Thr Gly Phe Thr Gly
      165      170      175
Gln Lys Cys Glu Thr Asp Val Asn Glu Cys Asp Ile Pro Gly His Cys
      180      185      190
Gln His Gly Gly Ile Cys Leu Asn Leu Pro Gly Ser Tyr Gln Cys Gln
      195      200      205
Cys Leu Gln Gly Phe Thr Gly Gln Tyr Cys Asp Ser Leu Tyr Val Pro
      210      215      220
Cys Ala Pro Ser Pro Cys Val Asn Gly Gly Thr Cys Arg Gln Thr Gly
      225      230      235      240
Asp Phe Thr Phe Glu Cys Asn Cys Leu Pro Glu Thr Val Arg Arg Gly
      245      250      255
Thr Glu Leu Trp Glu Arg Asp Arg Glu Val Trp Asn Gly Lys Glu His
      260      265      270
Asp Glu Asn *
      275

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<210> 1451
 <211> 121
 <212> PRT
 <213> Homo sapiens

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      <400> 1451
Met Glu Ser Gly Leu Ser Trp Ile Phe Leu Leu Ala Ile Leu Lys Gly
      1      5      10      15
Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
      20      25      30
Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Arg Phe
      35      40      45
Asp Glu Tyr Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
      50      55      60
Glu Trp Val Gly Gly Ile Ser Trp Asn Arg Asp Ser Ile Ala Tyr Ala
      65      70      75      80
Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Gln Ser
      85      90      95
Tyr Val Tyr Leu Gln Met Asn Ser Leu Arg His Glu Asp Thr Ala Leu
      100      105      110
Tyr Tyr Cys Thr Lys Leu Arg Ser Ser
      115      120 121

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<210> 1452
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1452
 Met Glu Arg Gly Asn Ala Leu Val Val Leu Arg Ser Leu Leu Trp Pro
 1 5 10 15
 Gly Leu Thr Phe Tyr His Ala Pro Arg Thr Lys Asn Tyr Gly Tyr Val
 20 25 30
 Tyr Val Gly Thr Gly Glu Lys Asn Met Asp Leu Pro Phe Met Leu *
 35 40 45 47

<210> 1453
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 1453
 Met Ile Thr Val Gln Phe Ser Tyr Thr Ala Val Lys Trp Leu Leu Asn
 1 5 10 15
 Cys Phe Val Leu Ile Leu Tyr Val Ile Leu Ser Ile Leu Phe Gln Val
 20 25 30
 Ser Gln Lys Asn Ser Ser Lys Leu Gly Arg Phe Lys Asn Leu Phe Asn
 35 40 45
 His Lys Glu Cys Ser Lys Leu Leu Phe Asn Arg Asn Gln Ala Gln Thr
 50 55 60
 Leu Glu Leu Thr Ala Asp Arg Ile Arg Phe Gly Leu Phe Pro Glu Trp
 65 70 75 80
 Lys His Phe Ser His Thr Thr Ser Leu Cys Thr Ala Lys Met Leu Ala
 85 90 95
 Tyr Pro Leu Trp Phe Pro Ser Phe Ser Leu Ala Ser Gln Arg Asn Leu
 100 105 110
 Pro Pro His Pro Leu Tyr Tyr Ile Phe Tyr *
 115 120 122

<210> 1454
 <211> 327
 <212> PRT
 <213> Homo sapiens

<400> 1454
 Met Arg Glu Trp Trp Val Gln Val Gly Leu Leu Ala Val Pro Leu Leu
 1 5 10 15
 Ala Ala Tyr Leu His Ile Pro Pro Pro Gln Leu Ser Pro Ala Leu His
 20 25 30
 Ser Trp Lys Ser Ser Gly Lys Phe Phe Thr Tyr Lys Gly Leu Arg Ile
 35 40 45
 Phe Tyr Gln Asp Ser Val Gly Val Val Gly Ser Pro Glu Ile Val Val

```

      50              55              60
Leu Leu His Gly Phe Pro Thr Ser Ser Tyr Asp Trp Tyr Lys Ile Trp
65              70              75              80
Glu Gly Leu Thr Leu Arg Phe His Arg Val Ile Ala Leu Asp Phe Leu
      85              90              95
Gly Phe Gly Phe Ser Asp Lys Pro Arg Pro His His Tyr Ser Ile Phe
      100              105              110
Glu Gln Ala Ser Ile Val Glu Ala Leu Leu Arg His Leu Gly Leu Gln
      115              120              125
Asn Arg Arg Ile Asn Leu Leu Ser His Asp Tyr Gly Asp Ile Val Ala
      130              135              140
Gln Glu Leu Leu Tyr Arg Tyr Lys Gln Asn Arg Ser Gly Arg Leu Thr
145              150              155              160
Ile Lys Ser Leu Cys Leu Ser Asn Gly Gly Ile Phe Pro Glu Thr His
      165              170              175
Arg Pro Leu Leu Leu Gln Lys Leu Leu Lys Asp Gly Gly Val Leu Ser
      180              185              190
Pro Ile Leu Thr Arg Leu Met Asn Phe Phe Val Phe Ser Arg Gly Leu
      195              200              205
Thr Pro Val Phe Gly Pro Tyr Thr Arg Pro Ser Glu Ser Glu Leu Trp
      210              215              220
Asp Met Trp Ala Gly Ile Arg Asn Asn Asp Gly Asn Leu Val Ile Asp
225              230              235              240
Ser Leu Leu Gln Tyr Ile Asn Gln Arg Lys Lys Phe Arg Arg Arg Trp
      245              250              255
Val Gly Ala Leu Ala Ser Val Thr Ile Pro Ile His Phe Ile Tyr Gly
      260              265              270
Pro Leu Asp Pro Val Asn Pro Tyr Pro Glu Phe Leu Glu Leu Tyr Arg
      275              280              285
Lys Thr Leu Pro Arg Ser Thr Val Ser Ile Leu Asp Asp His Ile Ser
      290              295              300
His Tyr Pro Gln Leu Glu Asp Pro Met Gly Phe Leu Asn Ala Tyr Met
305              310              315              320
Gly Phe Ile Asn Ser Phe *
      325 326

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<210> 1455
 <211> 57
 <212> PRT
 <213> Homo sapiens

```

      <400> 1455
Met Ile Leu Leu Lys Val Cys Ser Ala Ala Ser Leu Leu Gly Glu Gly
1              5              10              15
Phe Met Asn Gln Val Thr Ser Thr Asn Lys Ala Ser Leu Ser Leu Leu
      20              25              30
Ser Leu Thr Met Lys Val Ala Val Asn Lys Gly Lys Lys Glu Arg Glu
      35              40              45
Leu Phe Ile Pro Phe Gln Phe Gln *
      50              55 56

```

<210> 1456
 <211> 48
 <212> PRT

<213> Homo sapiens

<400> 1456

```

Met His Cys Ile Phe Ser Cys Leu Leu Trp Cys Ile Gln Leu Pro Ser
 1          5          10          15
Met Leu Ser Val Leu Lys Thr Gln Pro Ser Lys Asn His Pro Leu Trp
          20          25          30
Pro Cys Lys Tyr Ala Tyr Asn Ile Phe Phe Phe Leu Cys Ile Ile *
          35          40          45          47

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<210> 1457

<211> 459

<212> PRT

<213> Homo sapiens

<400> 1457

```

Met Ser Asp Leu Leu Ser Val Phe Leu His Leu Leu Leu Leu Phe Lys
 1          5          10          15
Leu Val Ala Pro Val Thr Phe Arg His His Arg Tyr Asp Asp Leu Val
          20          25          30
Arg Thr Leu Tyr Lys Val Gln Asn Glu Cys Pro Gly Ile Thr Arg Val
          35          40          45
Tyr Ser Ile Gly Arg Ser Val Glu Gly Arg His Leu Tyr Val Leu Glu
          50          55          60
Phe Ser Asp His Pro Gly Ile His Glu Pro Leu Glu Pro Glu Val Lys
          65          70          75          80
Tyr Val Gly Asn Met His Gly Asn Glu Ala Leu Gly Arg Glu Leu Met
          85          90          95
Leu Gln Leu Ser Glu Phe Leu Cys Glu Glu Phe Arg Asn Arg Asn Gln
          100          105          110
Arg Ile Val Gln Leu Ile Gln Asp Thr Arg Ile His Ile Leu Pro Ser
          115          120          125
Met Asn Pro Asp Gly Tyr Glu Val Ala Ala Ala Gln Gly Pro Asn Lys
          130          135          140
Pro Gly Tyr Leu Val Gly Arg Asn Asn Ala Asn Gly Val Asp Leu Asn
          145          150          155          160
Arg Asn Phe Pro Asp Leu Asn Thr Tyr Ile Tyr Tyr Asn Glu Lys Tyr
          165          170          175
Gly Gly Pro Asn His His Leu Pro Leu Pro Asp Asn Trp Lys Ser Gln
          180          185          190
Val Glu Pro Glu Thr Arg Ala Val Ile Arg Trp Met His Ser Phe Asn
          195          200          205
Phe Val Leu Ser Ala Asn Leu His Gly Gly Ala Val Val Ala Asn Tyr
          210          215          220
Pro Tyr Asp Lys Ser Phe Glu His Arg Val Arg Gly Val Arg Arg Thr
          225          230          235          240
Ala Ser Thr Pro Thr Pro Asp Asp Lys Leu Phe Gln Lys Leu Ala Lys
          245          250          255
Val Tyr Ser Tyr Ala His Gly Trp Met Phe Gln Gly Trp Asn Cys Gly
          260          265          270
Asp Tyr Phe Pro Asp Gly Ile Thr Asn Gly Ala Ser Trp Tyr Ser Leu
          275          280          285
Ser Lys Gly Met Gln Asp Phe Asn Tyr Leu His Thr Asn Cys Phe Glu
          290          295          300
Ile Thr Leu Glu Leu Ser Cys Asp Lys Phe Pro Pro Glu Glu Glu Leu

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305          310          315          320
Gln Arg Glu Trp Leu Gly Asn Arg Glu Ala Leu Ile Gln Phe Leu Glu
          325          330          335
Gln Val His Gln Gly Ile Lys Gly Met Val Leu Asp Glu Asn Tyr Asn
          340          345          350
Asn Leu Ala Asn Ala Val Ile Ser Val Ser Gly Ile Asn His Asp Val
          355          360          365
Thr Ser Gly Asp His Gly Asp Tyr Phe Arg Leu Leu Leu Pro Gly Ile
          370          375          380
Tyr Thr Val Ser Ala Thr Ala Pro Gly Tyr Asp Pro Glu Thr Val Thr
385          390          395          400
Val Thr Val Gly Pro Ala Glu Pro Thr Leu Val Asn Phe His Leu Lys
          405          410          415
Arg Ser Ile Pro Gln Val Ser Pro Val Arg Arg Ala Pro Ser Arg Arg
          420          425          430
His Gly Val Arg Ala Lys Val Gln Pro Gln Pro Arg Lys Lys Glu Met
          435          440          445
Glu Met Arg Gln Leu Gln Arg Gly Pro Ala *
          450          455          458

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<210> 1458
<211> 463
<212> PRT
<213> Homo sapiens

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```

<400> 1458
Met Ala Arg Val Leu Gly Ala Pro Val Ala Leu Gly Leu Trp Ser Leu
 1          5          10          15
Cys Trp Ser Leu Ala Ile Ala Thr Pro Leu Pro Pro Thr Ser Ala His
          20          25          30
Gly Asn Val Ala Glu Gly Glu Thr Lys Pro Asp Pro Asp Val Thr Glu
          35          40          45
Arg Cys Ser Asp Gly Trp Ser Phe Asp Ala Thr Thr Leu Asp Asp Asn
          50          55          60
Gly Thr Met Leu Phe Phe Lys Gly Glu Phe Val Trp Lys Ser His Lys
          65          70          75          80
Trp Asp Arg Glu Leu Ile Ser Glu Arg Trp Lys Asn Phe Pro Ser Pro
          85          90          95
Val Asp Ala Ala Phe Arg Gln Gly His Asn Ser Val Phe Leu Ile Lys
          100          105          110
Gly Asp Lys Val Trp Val Tyr Pro Pro Glu Lys Lys Glu Lys Gly Tyr
          115          120          125
Pro Lys Leu Leu Gln Asp Glu Phe Pro Gly Ile Pro Ser Pro Leu Asp
          130          135          140
Ala Ala Val Glu Cys His Arg Gly Glu Cys Gln Ala Glu Gly Val Leu
145          150          155          160
Phe Phe Gln Gly Asp Arg Glu Trp Phe Trp Asp Leu Ala Thr Gly Thr
          165          170          175
Met Lys Glu Arg Ser Trp Pro Ala Val Gly Asn Cys Ser Ser Ala Leu
          180          185          190
Arg Trp Leu Gly Arg Tyr Tyr Cys Phe Gln Gly Asn Gln Phe Leu Arg
          195          200          205
Phe Asp Pro Val Arg Gly Glu Val Pro Pro Arg Tyr Pro Arg Asp Val
          210          215          220
Arg Asp Tyr Phe Met Pro Cys Pro Gly Arg Gly His Gly His Arg Asn
225          230          235          240

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Gly Thr Gly His Gly Asn Ser Thr His His Gly Pro Glu Tyr Met Arg
 245 250 255
 Cys Ser Pro His Leu Val Leu Ser Ala Leu Thr Ser Asp Asn His Gly
 260 265 270
 Ala Thr Tyr Ala Phe Ser Gly Thr His Tyr Trp Arg Leu Asp Thr Ser
 275 280 285
 Arg Asp Gly Trp His Ser Trp Pro Ile Ala His Gln Trp Pro Gln Gly
 290 295 300
 Pro Ser Ala Val Asp Ala Ala Phe Ser Trp Glu Glu Lys Leu Tyr Leu
 305 310 315 320
 Val Gln Gly Thr Gln Val Tyr Val Phe Leu Thr Lys Gly Gly Tyr Thr
 325 330 335
 Leu Val Ser Gly Tyr Pro Lys Arg Leu Glu Lys Glu Val Gly Thr Pro
 340 345 350
 His Gly Ile Ile Leu Asp Ser Val Asp Ala Ala Phe Ile Cys Pro Gly
 355 360 365
 Ser Ser Arg Leu His Ile Met Ala Gly Arg Arg Leu Trp Trp Leu Asp
 370 375 380
 Leu Lys Ser Gly Ala Gln Ala Thr Trp Thr Glu Leu Pro Trp Pro His
 385 390 395 400
 Glu Lys Val Asp Gly Ala Leu Cys Met Glu Lys Ser Leu Gly Pro Asn
 405 410 415
 Ser Cys Ser Ala Asn Gly Pro Gly Leu Tyr Leu Ile His Gly Pro Asn
 420 425 430
 Leu Tyr Cys Tyr Ser Asp Val Glu Lys Leu Asn Ala Ala Lys Ala Leu
 435 440 445
 Pro Gln Pro Gln Asn Val Thr Ser Leu Leu Gly Cys Thr His *
 450 455 460 462

<210> 1459
 <211> 187
 <212> PRT
 <213> Homo sapiens

<400> 1459
 Met Gln Pro Ile Val Ala Lys Ala Leu Val Val Leu Leu Glu Val His
 1 5 10 15
 Pro Leu Gln Asp Gln Ala Glu Ser Gly Arg Leu Gly His Val His Leu
 20 25 30
 Leu Cys Ala Pro Ala Ala Leu Gln His Ala Leu Arg Gly Ile Thr Leu
 35 40 45
 His Asn Gly His His Gln Ala Asp His Leu Pro Asp Leu Met His His
 50 55 60
 Glu Ala Leu Ala Leu His Pro Asp His Arg Lys Leu Gln Ala Leu Pro
 65 70 75 80
 His Lys Gly Phe Leu Ala Val His Leu Gln Asp Val Ala Ala Gly Thr
 85 90 95
 Gly Ile Leu Arg Pro Leu Leu Arg Gly Glu Ile Val Glu Val Val Arg
 100 105 110
 Ala Leu Val Ala Gly Gln Glu Pro Val Asp Leu Leu Gln Arg Leu Gly
 115 120 125
 Ala Gln Ala Val Gly Leu Ile Leu Asn Val Pro Val Leu Val Arg Lys
 130 135 140
 Gly Lys Arg Gly Gln Gln Val Ala Ile Gly Pro Gly Ile Thr Ser Val
 145 150 155 160
 Leu Gly Val Lys Pro Ala Arg Asp Pro Leu Gln Ser Gln Asn Pro Asn

Val Arg Gly Lys Val Ala Val Asp Leu Phe *
 165 170 175
 180 185 186

<210> 1460
 <211> 223
 <212> PRT
 <213> Homo sapiens

<400> 1460
 Met Lys Phe Ala Leu Phe Thr Ser Gly Val Ala Leu Thr Leu Ser Phe
 1 5 10 15
 Val Phe Met Tyr Ala Lys Cys Glu Asn Glu Pro Phe Ala Gly Val Ser
 20 25 30
 Glu Ser Tyr Asn Gly Thr Gly Glu Leu Gly Asn Leu Ile Ala Pro Cys
 35 40 45
 Asn Ala Asn Cys Asn Cys Ser Arg Ser Tyr Tyr Tyr Pro Val Cys Gly
 50 55 60
 Asp Gly Val Gln Tyr Phe Ser Pro Cys Phe Ala Gly Cys Ser Asn Pro
 65 70 75 80
 Val Ala His Arg Lys Pro Lys Val Tyr Tyr Asn Cys Ser Cys Ile Glu
 85 90 95
 Arg Lys Thr Glu Ile Thr Ser Thr Ala Glu Thr Phe Gly Phe Glu Ala
 100 105 110
 Asn Ala Gly Lys Cys Glu Thr His Cys Ala Lys Leu Ala Ile Phe Leu
 115 120 125
 Cys Ile Val Phe Ile Gly Asn Ile Phe Thr Phe Met Ala Arg Ser Pro
 130 135 140
 Ile Thr Gly Ala Ile Pro Arg Gly Gly Asn His Arg Gln Arg Pro Pro
 145 150 155 160
 Thr Leu Gly Ile Gln Phe Met Ala Leu Arg Thr Leu Trp Thr Thr Pro
 165 170 175
 Trp Pro Ser Lys Thr Gly Cys Pro Ile His Gln Pro Gly Ser Leu Trp
 180 185 190
 Glu Lys Leu Gly Trp Arg Pro Leu Lys Thr Leu Arg Arg Pro Lys Pro
 195 200 205
 Ser Trp Asn Ala Leu Leu Ala Leu Ala His Pro Arg Ser Phe Gln
 210 215 220 223

<210> 1461
 <211> 210
 <212> PRT
 <213> Homo sapiens

<400> 1461
 Met Tyr Phe Phe Leu Leu Leu Leu Phe Phe Asn Val Gln Arg Leu Ala
 1 5 10 15
 Phe Pro Phe Gly Ile Pro Asn Asp Pro Met Leu Trp Ser Glu Gly Gln
 20 25 30
 Ser His Leu Cys Trp Arg Ser Pro Leu Ile Pro Ser Ala Gln Phe Arg
 35 40 45
 Gly Ser Arg Ala Asp Ile Arg Gly Ser Met Leu His Ser Ser Ser Gly
 50 55 60

Arg Val Val Pro Leu Asn Pro Ala Thr Lys Leu Ser Pro Leu Glu Ser
 65 70 75 80
 Gln Met Ala Leu His Thr Lys Ala Val Glu Ala Gly Met Val Phe Gly
 85 90 95
 His Arg Ala Glu His Lys Asp Pro Arg Ser Val Trp Glu Ser Tyr Trp
 100 105 110
 Leu Leu Gly Ser Pro Trp Ala Glu Val Thr Arg Leu His Pro Arg Arg
 115 120 125
 Ala Gln Leu Gly Ser Leu Pro Pro Pro Asp Pro Arg Thr Thr His Arg
 130 135 140
 Arg Gly Ala Val Ser Ile Phe Leu Lys Gly Pro Phe Gly Asp Leu Val
 145 150 155 160
 Leu Ser Val Glu Arg Thr Asp Val Ala Leu Ser Ser Gln His Ile Pro
 165 170 175
 Gly Ser Gly Arg Pro Gln Leu Lys Gln Cys Gln Gly Pro Gln Gly Ser
 180 185 190
 His Leu Asp Arg Pro Thr Ala Cys Asn Ser Ala Leu Leu Arg Arg Gln
 195 200 205
 His *
 209

<210> 1462
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1462
 Met Ala Val Arg Val Leu Trp Gly Gly Leu Ser Leu Leu Arg Val Leu
 1 5 10 15
 Trp Cys Leu Leu Pro Gln Thr Gly Tyr Val His Pro Asp Glu Phe Phe
 20 25 30
 Gln Ser Pro Glu Val Met Ala Gly Lys Thr Pro His Val Trp Leu Arg
 35 40 45
 Gln Ala Ala Ala Glu Ser Ala *
 50 55

<210> 1463
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 1463
 Met Glu Asn Cys Val Gly Glu Arg Asn His Pro Leu Phe Val Val Tyr
 1 5 10 15
 Leu Ala Leu Gln Leu Val Val Leu Leu Trp Gly Leu Tyr Leu Ala Cys
 20 25 30
 Pro Gly Val Cys Gly Cys Gly Pro Ala Gly Ser Cys Ser Pro Pro Ser
 35 40 45
 Cys Cys Trp Pro Ser Ser Arg Gly Gly Gln Pro Gly Ser Arg Leu Ala
 50 55 60
 Pro Leu
 65 66

<210> 1464
 <211> 200
 <212> PRT
 <213> Homo sapiens

<400> 1464
 Met Val Trp Arg Arg Leu Leu Arg Lys Arg Trp Val Leu Ala Leu Val
 1 5 10 15
 Phe Gly Leu Ser Leu Val Tyr Phe Leu Ser Ser Thr Phe Lys Gln Glu
 20 25 30
 Glu Arg Ala Val Arg Asp Arg Asn Leu Leu Gln Val His Asp His Asn
 35 40 45
 Gln Pro Ile Pro Trp Lys Val Gln Phe Asn Leu Gly Asn Ser Ser Arg
 50 55 60
 Pro Ser Asn Gln Cys Arg Asn Ser Ile Gln Gly Lys His Leu Ile Thr
 65 70 75 80
 Asp Glu Leu Gly Tyr Val Cys Glu Arg Lys Asp Leu Leu Val Asn Gly
 85 90 95
 Cys Cys Asn Val Asn Val Pro Ser Thr Lys Gln Tyr Cys Cys Asp Gly
 100 105 110
 Cys Trp Pro Asn Gly Cys Cys Ser Ala Tyr Glu Tyr Cys Val Ser Cys
 115 120 125
 Cys Leu Gln Pro Asn Lys Gln Leu Leu Leu Glu Arg Phe Leu Asn Arg
 130 135 140
 Ala Ala Val Ala Phe Gln Asn Leu Phe Met Ala Val Glu Asp His Phe
 145 150 155 160
 Glu Leu Cys Leu Ala Lys Cys Arg Thr Ser Ser Gln Ser Val Gln His
 165 170 175
 Glu Asn Thr Tyr Arg Asp Pro Ile Ala Lys Tyr Cys Tyr Gly Glu Ser
 180 185 190
 Pro Pro Glu Leu Phe Pro Ala *
 195 199

<210> 1465
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1465
 Met Gln Leu Ile Arg Arg Ser His Asn Arg His Trp Phe Arg Ser Ala
 1 5 10 15
 Ile Thr Phe Leu Met Cys Lys Gly Ile Thr Leu Leu Trp Leu Trp Lys
 20 25 30
 Leu Leu Thr Gly Asn Asp Cys Ile Glu Tyr Ile Arg Lys *
 35 40 45

<210> 1466
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1466

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Met Arg Leu Leu Phe Ser Ser Gln Val Asn Ser Lys Arg Leu Thr Ala
 1              5              10              15
Ser Arg Ala Phe Leu Val Leu Val Pro Ala His Leu Ser Tyr Leu Leu
              20              25              30
Ala Leu Pro Ser Ile Pro Ala Thr Arg Gly Phe Trp Phe Lys Asp Thr
              35              40              45
Val Phe Leu Ser Cys Ser Ala *
              50              55

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<210> 1467

<211> 366

<212> PRT

<213> Homo sapiens

<400> 1467

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Met Arg Gly Gln Val Val Thr Leu Ile Leu Leu Leu Leu Lys Val
 1              5              10              15
Tyr Gln Gly Lys Gly Cys Gln Gly Ser Ala Asp His Val Val Ser Ile
              20              25              30
Ser Gly Val Pro Leu Gln Leu Gln Pro Asn Ser Ile Gln Thr Lys Val
              35              40              45
Asp Ser Ile Ala Trp Lys Lys Leu Leu Pro Ser Gln Asn Gly Phe His
              50              55              60
His Ile Leu Lys Trp Glu Asn Gly Ser Leu Pro Ser Asn Thr Ser Asn
              65              70              75              80
Asp Arg Phe Ser Phe Ile Val Lys Asn Leu Ser Leu Leu Ile Lys Ala
              85              90              95
Ala Gln Gln Gln Asp Ser Gly Leu Tyr Cys Leu Glu Val Thr Ser Ile
              100              105              110
Ser Gly Lys Val Gln Thr Ala Thr Phe Gln Val Phe Val Phe Asp Lys
              115              120              125
Val Glu Lys Pro Arg Leu Gln Gly Gln Gly Lys Ile Leu Asp Arg Gly
              130              135              140
Arg Cys Gln Val Ala Leu Ser Cys Leu Val Ser Arg Asp Gly Asn Val
              145              150              155              160
Ser Tyr Ala Trp Tyr Arg Gly Ser Lys Leu Ile Gln Thr Ala Gly Asn
              165              170              175
Leu Thr Tyr Leu Asp Glu Glu Val Asp Ile Asn Gly Thr His Thr Tyr
              180              185              190
Thr Cys Asn Val Ser Asn Pro Val Ser Trp Glu Ser His Thr Leu Asn
              195              200              205
Leu Thr Gln Asp Cys Gln Asn Ala His Gln Glu Phe Arg Phe Trp Pro
              210              215              220
Phe Leu Val Ile Ile Val Ile Leu Ser Ala Leu Phe Leu Gly Thr Leu
              225              230              235              240
Ala Cys Phe Cys Val Trp Arg Arg Lys Arg Lys Glu Lys Gln Ser Glu
              245              250              255
Thr Ser Pro Lys Glu Phe Leu Thr Ile Tyr Glu Asp Val Lys Asp Leu
              260              265              270
Lys Thr Arg Arg Asn His Glu Gln Glu Thr Phe Pro Gly Gly Gly
              275              280              285
Ser Thr Ile Tyr Ser Met Ile Gln Ser Gln Ser Ser Ala Pro Thr Ser
              290              295              300
Gln Glu Pro Ala Tyr Thr Leu Tyr Ser Leu Ile Gln Pro Ser Arg Lys

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305          310          315          320
Ser Gly Ser Arg Lys Arg Asn His Ser Pro Ser Phe Asn Ser Thr Ile
          325          330          335
Tyr Glu Val Ile Gly Lys Ser Gln Pro Lys Ala Gln Asn Pro Ala Arg
          340          345          350
Leu Ser Arg Lys Glu Leu Glu Asn Phe Asp Val Tyr Ser *
          355          360          365

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<210> 1468
<211> 57
<212> PRT
<213> Homo sapiens

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<400> 1468
Met Thr Asp Phe Phe Leu Cys Ile His Ser Phe Tyr Leu Cys Val Leu
 1          5          10          15
Leu Gln Ala Ser Leu Asp Met Leu Ser Val Lys Ser Phe Ser Phe Lys
          20          25          30
Val Leu Cys Leu Met Lys Ala Lys Glu Lys Pro Asn Thr Thr Ser Cys
          35          40          45
His Leu Val Ile Asp Ser Asn Ser Thr
 50          55          57

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<210> 1469
<211> 110
<212> PRT
<213> Homo sapiens

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<400> 1469
Met Leu Glu Ile Leu Leu Lys Leu Val Arg Leu Leu Thr Thr Gln Pro
 1          5          10          15
Tyr Leu Thr Leu Phe Gln Ala Val Arg Asn Leu Ala Leu Asn Leu Ser
          20          25          30
Thr Ser Ser Gly Ser Leu Gly Pro Ala Pro Gly Glu Pro Arg Ala Gly
          35          40          45
Pro Leu Ala Pro Glu Gly Pro Arg Pro Leu Gly Ser Gly Pro Leu Gly
          50          55          60
Pro Arg Gly Leu Arg Ala Ser Gly Arg Arg Arg Ala Ser Ser Gly Leu
          65          70          75          80
Leu Leu Arg Tyr Cys Ala Ala Ala Gly Asp Thr Glu Phe Met Asp Ala
          85          90          95
Pro Gly Gly Arg Thr Glu Gly Pro Gly Gly Gly Leu Arg Pro
          100          105          110

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<210> 1470
<211> 59
<212> PRT
<213> Homo sapiens

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<400> 1470

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Met Met Cys Arg Cys Met Cys Ala Cys Val Cys Ala Pro Val Cys Val
 1      5      10      15
His Met His Gly Leu Ala Pro Ala Pro Ala Ile Trp Ile Glu Gln Phe
 20      25      30
Trp Val Glu Asn Phe Phe Ser Pro Phe Leu Lys Val Ser Phe Tyr Ser
 35      40      45
Leu Pro Val Cys Ile Glu Lys Ser Ser Ile *
 50      55      58

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<210> 1471
<211> 123
<212> PRT
<213> Homo sapiens

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<400> 1471
Met Met His Phe Leu Thr Gly Gly Trp Lys Val Leu Phe Ala Cys Val
 1      5      10      15
Pro Pro Thr Glu Tyr Cys His Gly Trp Ala Cys Phe Gly Val Ser Ile
 20      25      30
Leu Val Ile Gly Leu Leu Thr Ala Leu Ile Gly Asp Leu Ala Ser His
 35      40      45
Phe Gly Cys Thr Val Gly Leu Lys Asp Ser Val Asn Ala Val Val Phe
 50      55      60
Val Ala Leu Gly Thr Ser Ile Pro Gly Asn Thr Leu Gly Asp Phe Gly
 65      70      75      80
Gly Val Gly Ser Gln Met Ser Gln Ala Gly Ala Thr Gln Asp Pro Ala
 85      90      95
Glu Met Arg His Val Arg Gln Gln Gly Gly Ala Ala Gly Pro Val
 100      105      110
Arg Arg Arg Val His Arg Glu Arg Asp Pro Leu
 115      120      123

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<210> 1472
<211> 316
<212> PRT
<213> Homo sapiens

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<400> 1472
Met Val Ser Ala Ser Gly Thr Ser Phe Phe Lys Gly Met Leu Leu Gly
 1      5      10      15
Ser Ile Ser Trp Val Leu Ile Thr Met Phe Gly Gln Ile His Ile Arg
 20      25      30
His Arg Gly Gln Thr Gln Asp His Glu His His Leu Arg Pro Pro
 35      40      45
Asn Arg Asn Asp Phe Leu Asn Thr Ser Lys Val Ile Leu Leu Glu Leu
 50      55      60
Ser Lys Ser Ile Arg Val Phe Cys Ile Ile Phe Gly Glu Ser Glu Asp
 65      70      75      80
Glu Ser Tyr Trp Ala Val Leu Lys Glu Thr Trp Thr Lys His Cys Asp
 85      90      95
Lys Ala Glu Leu Tyr Asp Thr Lys Asn Asp Asn Leu Phe Asn Ile Glu
 100      105      110
Ser Asn Asp Arg Trp Val Gln Met Arg Thr Ala Tyr Lys Tyr Val Phe

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      115      120      125
Glu Lys Asn Gly Asp Asn Tyr Asn Trp Phe Phe Leu Ala Leu Pro Thr
 130      135      140
Thr Phe Ala Val Ile Glu Asn Leu Lys Tyr Leu Leu Phe Thr Arg Asp
145      150      155      160
Ala Ser Gln Pro Phe Tyr Leu Gly His Thr Val Ile Phe Gly Asp Leu
      165      170      175
Glu Tyr Val Thr Val Glu Gly Gly Ile Val Leu Ser Arg Glu Leu Met
      180      185      190
Lys Arg Leu Asn Arg Leu Leu Asp Asn Ser Glu Thr Cys Ala Asp Gln
      195      200      205
Ser Val Ile Trp Lys Leu Ser Glu Asp Lys Gln Leu Ala Ile Cys Leu
      210      215      220
Lys Tyr Ala Gly Val His Ala Glu Asn Ala Glu Asp Tyr Glu Gly Arg
225      230      235      240
Asp Val Phe Asn Thr Lys Pro Ile Ala Gln Leu Ile Glu Glu Ala Leu
      245      250      255
Ser Asn Asn Pro Gln Gln Val Val Glu Gly Cys Cys Ser Asp Met Ala
      260      265      270
Ile Thr Phe Asn Gly Leu Thr Pro Gln Lys Met Glu Val Met Met Tyr
      275      280      285
Gly Leu Tyr Arg Leu Arg Ala Phe Gly His Tyr Phe Asn Asp Thr Leu
      290      295      300
Val Phe Leu Pro Pro Val Gly Ser Glu Asn Asp *
305      310      315

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<210> 1473
 <211> 65
 <212> PRT
 <213> Homo sapiens

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      <400> 1473
Met Gln Cys Pro Pro Pro Phe Leu Gly Gln Trp Leu Leu Cys Pro Ala
 1      5      10      15
Ala Arg Gln Trp Gly Pro Gly Ala Gly Ser Pro Gly Pro Val Leu Val
      20      25      30
Pro Ala Gly Arg Arg Arg Pro Pro Arg Ser Gly Pro Gln Arg Asp
      35      40      45
Ser Pro Ala Pro Val Arg Gly Pro Gln Phe His Ser Val Val Gly Pro
      50      55      60      64
*
```

<210> 1474
 <211> 55
 <212> PRT
 <213> Homo sapiens

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      <400> 1474
Met Ile Phe Met Arg Val Leu Met Leu Leu Cys Cys Met Asp Ser Leu
 1      5      10      15
Gly Ser Leu Asp Thr Phe Gln Trp Leu Ser Arg Val Leu Cys Pro Thr
      20      25      30

```

Glu Asn Leu Ile Phe Glu Leu Asn Gly Tyr Glu Leu Asn Ser Thr Trp
 35 40 45
 Phe Gly Trp Leu Asn Thr *
 50 54

<210> 1475
 <211> 128
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(128)
 <223> Xaa = any amino acid or nothing

<400> 1475
 Met Lys Phe Gln Leu Phe Leu Ser Tyr Val Phe Ile Thr Gln Val Phe
 1 5 10 15
 Ser Arg Pro Phe Gln Ser Asn Leu Gly Ser Leu Thr Pro Ala Ser Ser
 20 25 30
 Gln Ile Pro Leu Gln Leu Pro Lys Ala Leu Cys Val Arg Cys Leu Asn
 35 40 45
 Thr Val Xaa Xaa Xaa Xaa Xaa Thr Gly Phe Gly Lys Phe Gln Ile Thr
 50 55 60
 Ile Gln Ser Pro Gly Gly Pro Leu Val Leu Ala Arg Pro Trp Ala Ser
 65 70 75 80
 Lys Phe Pro Ser Pro Lys Phe Xaa Xaa Xaa Xaa Xaa Xaa Pro Lys Met
 85 90 95
 Gly Gly Lys Thr Phe Ala Tyr Gly Arg Ile Asn Pro Thr Arg Pro Ala
 100 105 110
 Lys Asn Xaa Xaa Xaa Xaa Xaa Xaa Ser Leu Ala Ser Leu Asn Pro Thr
 115 120 125 128

<210> 1476
 <211> 210
 <212> PRT
 <213> Homo sapiens

<400> 1476
 Met Tyr Phe Phe Leu Leu Leu Leu Phe Phe Asn Val Gln Arg Leu Ala
 1 5 10 15
 Phe Pro Phe Gly Ile Pro Asn Asp Pro Met Leu Trp Ser Glu Gly Gln
 20 25 30
 Ser His Leu Cys Trp Arg Ser Pro Leu Ile Pro Ser Ala Gln Phe Arg
 35 40 45
 Gly Ser Arg Ala Asp Ile Arg Gly Ser Met Leu His Ser Ser Ser Gly
 50 55 60
 Arg Val Val Pro Leu Asn Pro Ala Thr Lys Leu Ser Pro Leu Glu Ser
 65 70 75 80
 Gln Met Ala Leu His Thr Lys Ala Val Glu Ala Gly Met Val Phe Gly
 85 90 95
 His Arg Ala Glu His Lys Asp Pro Arg Ser Val Trp Glu Ser Tyr Trp

```

      100      105      110
Leu Leu Gly Ser Pro Trp Ala Glu Val Thr Arg Leu His Pro Arg Arg
      115      120      125
Ala Gln Leu Gly Ser Leu Pro Pro Pro Asp Pro Arg Thr Thr His Arg
      130      135      140
Arg Gly Ala Val Ser Ile Phe Leu Lys Gly Pro Phe Gly Asp Leu Val
      145      150      155      160
Leu Ser Val Glu Arg Thr Asp Val Ala Leu Ser Ser Gln His Ile Pro
      165      170      175
Gly Ser Gly Arg Pro Gln Leu Lys Gln Cys Gln Gly Pro Gln Gly Ser
      180      185      190
His Leu Asp Arg Pro Thr Ala Cys Asn Ser Ala Leu Leu Arg Arg Gln
      195      200      205
His *
209

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<210> 1477
<211> 57
<212> PRT
<213> Homo sapiens

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<400> 1477
Met His Thr Cys Gln Ile Tyr Ile Tyr Ser Thr Asn Val Thr Phe Leu
  1      5      10      15
Phe Phe Val Leu Asp Val Arg Ala Cys Ser Tyr Val Arg Tyr Leu His
      20      25      30
Lys Leu Leu His Tyr Phe Phe Leu Cys Asn Thr Phe Leu Phe Val Tyr
      35      40      45
Val Val Gln Ile Tyr Phe Phe Pro *
      50      55      56

```

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<210> 1478
<211> 97
<212> PRT
<213> Homo sapiens

```

```

<400> 1478
Met Arg Ile Trp Ser Arg Ala Val Gly Asp Gly Pro Ala Ala Val Cys
  1      5      10      15
Cys Pro Leu Arg Ser Trp Cys Leu Leu Trp Ala Leu Asp Ser Leu
      20      25      30
Asp Pro Ala Ala Val Thr Thr His Ala Ser Ala Met Leu Ser Gly Val
      35      40      45
Phe Thr Pro Pro Phe Val Ser Ala Leu Pro Val Gln Trp Met Gln Met
      50      55      60
Pro Val Leu Ser Phe Leu Ser Leu Thr Gly Ser Ser Val Tyr Val His
      65      70      75      80
Met Ala Leu Leu Ser Gly His Gln Gly Ser Asp Thr Cys Ser Gly Leu
      85      90      95      96
*

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<210> 1479
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 1479
 Met Leu Ser Ile Ser Tyr Phe Ser Asn Ser Leu Met Leu Arg Leu Val
 1 5 10 15
 Pro Leu Ala Ala Tyr Val Leu Ser Tyr Leu Ile Cys Ser Val Leu Leu
 20 25 30
 His Ile Asn Gln Thr Thr Val Thr Thr Tyr Arg Gly Arg Lys Gln Arg
 35 40 45
 Lys Lys Ile Gln Phe Ala Thr Gly Asn His Gln Ser Ala Gln Ser Tyr
 50 55 60
 Ser Glu Leu Leu Ser Leu Ser Leu Ser Phe Ser Ser Leu Leu Ser Pro
 65 70 75 80
 Val Phe Ser Leu Pro Ser Trp Ser Leu Pro Ser Leu Pro Pro Phe Phe
 85 90 95
 Ser His Ser Pro His Gln Lys Gly Ile Met Met Val Pro Arg Ser Val
 100 105 110 112
 *

<210> 1480
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 1480
 Met Arg Leu Ser Val Cys Leu Leu Leu Thr Leu Ala Leu Cys Cys
 1 5 10 15
 Tyr Arg Ala Asn Ala Val Val Cys Gln Ala Leu Gly Ser Glu Ile Thr
 20 25 30
 Gly Phe Leu Leu Ala Gly Lys Pro Val Phe Lys Phe Gln Leu Ala Lys
 35 40 45
 Phe Lys Ala Pro Leu Glu Ala Val Ala Ala Lys Met Glu Val Lys Lys
 50 55 60
 Cys Val Asp Thr Met Ala Tyr Glu Lys Arg Val Leu Ile Thr Lys Thr
 65 70 75 80
 Leu Gly Lys Ile Ala Glu Lys Cys Asp Arg *
 85 90

<210> 1481
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1481
 Met Pro Gly Ser Ile Leu Ser Asn Leu His Val Leu Leu Lys Tyr Leu
 1 5 10 15
 Phe Thr Phe Ala Glu Val Phe Leu Val Pro Gly Pro Phe Asn Val Leu

20 25 30
 Phe Leu Ser Leu Arg Leu Glu Thr Leu Thr Phe Phe Val Leu Trp Leu
 35 40 45
 Val Pro Tyr Leu Ile *
 50 53

<210> 1482
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1482
 Met Glu Arg Trp Leu Gly Leu Ile Gln Thr Leu Trp Leu Pro Ala His
 1 5 10 15
 Ser Gly Pro Leu Gly Arg Ala Trp Val Val Pro Arg Ala Thr Ser Gly
 20 25 30
 His Tyr Trp Gly Gly Lys Gly Thr Asn Glu Gly Gly Gln Asp Lys Gly
 35 40 45
 His Phe Pro Leu Pro Pro Arg *
 50 55

<210> 1483
 <211> 202
 <212> PRT
 <213> Homo sapiens

<400> 1483
 Met Leu Leu Leu Leu Gly Leu Cys Leu Gly Leu Ser Leu Cys Val Gly
 1 5 10 15
 Ser Gln Glu Glu Ala Gln Ser Trp Gly His Ser Ser Glu Gln Asp Gly
 20 25 30
 Leu Arg Val Pro Arg Gln Val Arg Leu Leu Gln Arg Leu Lys Thr Lys
 35 40 45
 Pro Leu Met Thr Glu Phe Ser Val Lys Ser Thr Ile Ile Ser Arg Tyr
 50 55 60
 Ala Phe Thr Thr Val Ser Cys Arg Met Leu Asn Arg Ala Ser Glu Asp
 65 70 75 80
 Gln Asp Ile Glu Phe Gln Met Gln Ile Pro Ala Ala Ala Phe Ile Thr
 85 90 95
 Asn Phe Thr Met Leu Ile Gly Asp Lys Val Tyr Gln Gly Glu Ile Thr
 100 105 110
 Glu Arg Glu Lys Lys Ser Gly Asp Arg Val Lys Glu Lys Arg Asn Lys
 115 120 125
 Thr Thr Glu Glu Asn Gly Glu Lys Gly Thr Glu Ile Phe Arg Ala Ser
 130 135 140
 Ala Val Ile Pro Ser Lys Asp Lys Ala Ala Phe Phe Leu Ser Tyr Glu
 145 150 155 160
 Glu Leu Leu Gln Arg Arg Leu Gly Lys Tyr Glu His Ser Ile Ser Val
 165 170 175
 Arg Pro Gln Gln Leu Ser Gly Arg Leu Ser Val Asp Val Asn Ile Leu
 180 185 190
 Glu Ser Ala Gly Ile Ala Ser Leu Glu Val
 195 200 202

<210> 1484
 <211> 477
 <212> PRT
 <213> Homo sapiens

<400> 1484
 Met Pro Gln Leu Ser Leu Ser Trp Leu Gly Leu Gly Gln Val Ala Ala
 1 5 10 15
 Phe Pro Trp Leu Leu Leu Leu Ala Gly Ala Ser Arg Leu Leu Ala
 20 25 30
 Gly Phe Leu Ala Trp Thr Tyr Ala Phe Tyr Asp Asn Cys Arg Arg Leu
 35 40 45
 Gln Tyr Phe Pro Gln Pro Pro Lys Gln Lys Trp Phe Trp Gly Gln Pro
 50 55 60
 Gly Pro Pro Ala Ile Ala Pro Lys Asp Asp Leu Ser Ile Arg Phe Leu
 65 70 75 80
 Lys Pro Trp Leu Gly Glu Gly Ile Leu Leu Ser Gly Gly Asp Lys Trp
 85 90 95
 Ser Arg His Arg Arg Met Leu Thr Pro Ala Phe His Phe Asn Ile Leu
 100 105 110
 Lys Ser Tyr Ile Thr Ile Phe Asn Lys Ser Ala Asn Ile Met Leu Asp
 115 120 125
 Lys Trp Gln His Leu Ala Ser Glu Gly Ser Ser Cys Leu Asp Met Phe
 130 135 140
 Glu His Ile Ser Leu Met Thr Leu Asp Ser Leu Gln Lys Cys Ile Phe
 145 150 155 160
 Ser Phe Asp Ser His Cys Gln Glu Arg Pro Ser Glu Tyr Ile Ala Thr
 165 170 175
 Ile Leu Glu Leu Ser Ala Leu Val Glu Lys Arg Ser Gln His Ile Leu
 180 185 190
 Gln His Met Asp Phe Leu Tyr Tyr Leu Ser His Asp Gly Arg Arg Phe
 195 200 205
 His Arg Ala Cys Arg Leu Val His Asp Phe Thr Asp Ala Val Ile Arg
 210 215 220
 Glu Arg Arg Arg Thr Leu Pro Thr Gln Gly Ile Asp Asp Phe Phe Lys
 225 230 235 240
 Asp Lys Ala Lys Ser Lys Thr Leu Asp Phe Ile Asp Val Leu Leu Leu
 245 250 255
 Ser Lys Asp Glu Asp Gly Lys Ala Leu Ser Asp Glu Asp Ile Arg Ala
 260 265 270
 Glu Ala Asp Thr Phe Met Phe Gly Gly His Asp Thr Thr Ala Ser Gly
 275 280 285
 Leu Ser Trp Val Leu Tyr Asn Leu Ala Arg His Pro Glu Tyr Gln Glu
 290 295 300
 Arg Cys Arg Gln Glu Val Gln Glu Leu Leu Lys Asp Arg Asp Pro Lys
 305 310 315 320
 Glu Ile Glu Trp Asp Asp Leu Ala Gln Leu Pro Phe Leu Thr Met Cys
 325 330 335
 Val Lys Glu Ser Leu Arg Leu His Pro Pro Ala Pro Phe Ile Ser Arg
 340 345 350
 Cys Cys Thr Gln Asp Ile Val Leu Pro Asp Gly Arg Val Ile Pro Lys
 355 360 365
 Gly Ile Thr Cys Leu Ile Asp Ile Ile Gly Val His His Asn Pro Thr
 370 375 380
 Val Trp Pro Asp Pro Glu Val Tyr Asp Pro Phe Arg Phe Asp Pro Glu

```

385          390          395          400
Asn Ser Lys Gly Arg Ser Pro Leu Ala Phe Ile Pro Phe Ser Ala Gly
          405          410          415
Pro Arg Asn Cys Ile Gly Gln Ala Phe Ala Met Ala Glu Met Lys Val
          420          425          430
Val Leu Ala Leu Met Leu Leu His Phe Arg Phe Leu Pro Asp His Thr
          435          440          445
Glu Pro Arg Arg Lys Leu Glu Leu Ile Met Arg Ala Glu Gly Gly Leu
          450          455          460
Trp Leu Arg Val Glu Pro Leu Asn Val Ser Leu Gln *
465          470          475 476

```

```

<210> 1485
<211> 67
<212> PRT
<213> Homo sapiens

```

```

<400> 1485
Met Ala Cys Cys Leu Phe Leu Asn Gly Ser Trp Leu Ser Met Ala Leu
 1          5          10          15
Lys Phe Phe Asn Cys Trp Gly Lys Lys Ile Lys Arg Ile Ile Phe Tyr
          20          25          30
Val Lys Ile Met Lys Phe Lys Phe Gln Cys Pro Gln Ile Asn Thr Ala
          35          40          45
Thr Tyr Ile His Leu His Gly Cys Phe Cys Thr Ser Met Ala Glu Leu
 50          55          60
Ser Ser *
65 66

```

```

<210> 1486
<211> 93
<212> PRT
<213> Homo sapiens

```

```

<400> 1486
Met Gly Ser Ser Val Leu Ser Ile Trp Ile Leu Ser Pro Ser Ile Tyr
 1          5          10          15
Pro Ile Leu Ser Pro Leu Ala Met Pro Cys Leu Ser Arg Thr Asp Leu
          20          25          30
Ile Arg Val Arg Arg Ile Gln Gly Ala Trp Pro Ser Glu Gly Thr Ala
          35          40          45
Ser Ser Ile Arg Gly Trp Val Leu Thr Lys Leu Arg Met Ser Ser Gly
 50          55          60
Lys Ala Leu Glu Ala Leu Tyr Cys Ile Pro Gly Ala Ala Gln His Pro
 65          70          75          80
Gly Leu Gly Val Thr Arg Val Trp Ser Gly Arg Thr *
          85          90          92

```

```

<210> 1487
<211> 88
<212> PRT

```

<213> Homo sapiens

<400> 1487

```

Met Gln Lys Val Thr Leu Gly Leu Leu Val Phe Leu Ala Gly Phe Pro
 1          5          10          15
Val Leu Asp Ala Asn Asp Leu Glu Asp Lys Asn Ser Pro Phe Tyr Tyr
          20          25          30
Asp Trp His Ser Leu Gln Val Gly Gly Leu Ile Cys Ala Gly Val Leu
          35          40          45
Cys Ala Met Gly Ile Ile Ile Val Met Ser Ala Lys Cys Lys Cys Lys
          50          55          60
Phe Gly Gln Lys Ser Gly His His Pro Gly Glu Thr Pro Pro Leu Ile
          65          70          75          80
Thr Pro Gly Ser Ala Gln Ser *
          85          87

```

<210> 1488

<211> 268

<212> PRT

<213> Homo sapiens

<400> 1488

```

Met Gly Ser Ala Cys Ile Lys Val Thr Lys Tyr Phe Leu Phe Leu Phe
 1          5          10          15
Asn Leu Ile Phe Phe Ile Leu Gly Ala Val Ile Leu Gly Phe Gly Val
          20          25          30
Trp Ile Leu Ala Asp Lys Ser Ser Phe Ile Ser Val Leu Gln Thr Ser
          35          40          45
Ser Ser Ser Leu Arg Met Gly Ala Tyr Val Phe Ile Gly Val Gly Ala
          50          55          60
Val Thr Met Leu Met Gly Phe Leu Gly Cys Ile Gly Ala Val Asn Glu
          65          70          75          80
Val Arg Cys Leu Leu Gly Leu Tyr Phe Ala Phe Leu Leu Leu Ile Leu
          85          90          95
Ile Ala Gln Val Thr Ala Gly Ala Leu Phe Tyr Phe Asn Met Gly Lys
          100          105          110
Leu Lys Gln Glu Met Gly Gly Ile Val Thr Glu Leu Ile Arg Asp Tyr
          115          120          125
Asn Ser Ser Arg Glu Asp Ser Leu Gln Asp Ala Trp Asp Tyr Val Gln
          130          135          140
Ala Gln Val Lys Cys Cys Gly Trp Val Ser Phe Tyr Asn Trp Thr Asp
          145          150          155          160
Asn Ala Glu Leu Met Asn Arg Pro Glu Val Thr Tyr Pro Cys Ser Cys
          165          170          175
Glu Val Lys Gly Glu Glu Asp Asn Ser Leu Ser Val Arg Lys Gly Phe
          180          185          190
Cys Glu Ala Pro Gly Asn Arg Thr Gln Ser Gly Asn His Pro Glu Asp
          195          200          205
Trp Pro Val Tyr Gln Glu Gly Cys Met Glu Lys Val Gln Ala Trp Leu
          210          215          220
Gln Glu Asn Leu Gly Ile Ile Leu Gly Val Gly Val Gly Val Ala Ile
          225          230          235          240
Ile Glu Leu Leu Gly Met Val Leu Ser Ile Cys Leu Cys Arg His Val
          245          250          255
His Ser Glu Asp Tyr Ser Lys Val Pro Lys Tyr *

```

260

265

267

<210> 1489
 <211> 832
 <212> PRT
 <213> Homo sapiens

<400> 1489
 Met Thr Leu Ala Leu Ala Tyr Leu Leu Ala Leu Pro Gln Val Leu Asp
 1 10 15
 Ala Asn Arg Cys Phe Glu Lys Gln Ser Pro Ser Ala Leu Ser Leu Gln
 20 25 30
 Leu Ala Ala Tyr Tyr Tyr Ser Leu Gln Ile Tyr Ala Arg Leu Ala Pro
 35 40 45
 Cys Phe Arg Asp Lys Cys His Pro Leu Tyr Arg Ala Asp Pro Lys Glu
 50 55 60
 Leu Ile Lys Met Val Thr Arg His Val Thr Arg His Glu His Glu Ala
 65 70 75 80
 Trp Pro Glu Asp Leu Ile Ser Leu Thr Lys Gln Leu His Cys Tyr Asn
 85 90 95
 Glu Arg Leu Leu Asp Phe Thr Gln Ala Gln Ile Leu Gln Gly Leu Arg
 100 105 110
 Lys Gly Val Asp Val Gln Arg Phe Thr Ala Asp Asp Gln Tyr Lys Arg
 115 120 125
 Glu Thr Ile Leu Gly Leu Ala Gln Arg Tyr Ser Val Ser Arg Trp Glu Val
 130 135 140
 Ile Ala Ile Ser Leu Ala Gln Arg Tyr Ser Val Ser Arg Trp Glu Val
 145 150 155 160
 Phe Met Thr His Leu Glu Phe Leu Phe Thr Asp Ser Gly Leu Ser Thr
 165 170 175
 Leu Glu Ile Glu Asn Arg Ala Gln Asp Leu His Leu Phe Glu Thr Leu
 180 185 190
 Lys Thr Asp Pro Glu Ala Phe His Gln His Met Val Lys Tyr Ile Tyr
 195 200 205
 Pro Thr Ile Gly Gly Phe Asp His Glu Arg Leu Gln Tyr Tyr Phe Thr
 210 215 220
 Leu Leu Glu Asn Cys Gly Cys Ala Asp Leu Gly Asn Cys Ala Ile Lys
 225 230 235 240
 Pro Glu Thr His Ile Arg Leu Leu Lys Lys Phe Lys Val Val Ala Ser
 245 250 255
 Gly Leu Asn Tyr Lys Lys Leu Thr Asp Glu Asn Met Ser Pro Leu Glu
 260 265 270
 Ala Leu Glu Pro Val Leu Ser Ser Gln Asn Ile Leu Ser Ile Ser Lys
 275 280 285
 Leu Val Pro Lys Ile Pro Glu Lys Asp Gly Gln Met Leu Ser Pro Ser
 290 295 300
 Ser Leu Tyr Thr Ile Trp Leu Gln Lys Leu Phe Trp Thr Gly Asp Pro
 305 310 315 320
 His Leu Ile Lys Gln Val Pro Gly Ser Ser Pro Glu Trp Leu His Ala
 325 330 335
 Tyr Asp Val Cys Met Lys Tyr Phe Asp Arg Leu His Pro Gly Asp Leu
 340 345 350
 Ile Thr Val Val Asp Ala Val Thr Phe Ser Pro Lys Ala Val Thr Lys
 355 360 365
 Leu Ser Val Glu Ala Arg Lys Glu Met Thr Arg Lys Ala Ile Lys Thr
 370 375 380

Val Lys His Phe Ile Glu Lys Pro Arg Lys Arg Asn Ser Glu Asp Glu
 385 390 395 400
 Ala Gln Glu Ala Lys Asp Ser Lys Val Thr Tyr Ala Asp Thr Leu Asn
 405 410 415
 His Leu Glu Lys Ser Leu Ala His Leu Glu Thr Leu Ser His Ser Phe
 420 425 430
 Ile Leu Ser Leu Lys Asn Ser Glu Gln Glu Thr Leu Gln Lys Tyr Ser
 435 440 445
 His Leu Tyr Asp Leu Ser Arg Ser Glu Lys Glu Lys Leu His Asp Glu
 450 455 460
 Ala Val Ala Ile Cys Leu Asp Gly Gln Pro Leu Ala Met Ile Gln Gln
 465 470 475 480
 Leu Leu Glu Val Ala Val Gly Pro Leu Asp Ile Ser Pro Lys Asp Ile
 485 490 495
 Val Gln Ser Ala Ile Met Lys Ile Ile Ser Ala Leu Ser Gly Gly Ser
 500 505 510
 Ala Asp Leu Gly Gly Pro Arg Asp Pro Leu Lys Val Leu Glu Gly Val
 515 520 525
 Val Ala Ala Val His Ala Ser Val Asp Lys Gly Glu Glu Leu Val Ser
 530 535 540
 Pro Glu Asp Leu Leu Glu Trp Leu Arg Pro Phe Cys Ala Asp Asp Ala
 545 550 555 560
 Trp Pro Val Arg Pro Arg Ile His Val Leu Gln Ile Leu Gly Gln Ser
 565 570 575
 Phe His Leu Thr Glu Glu Asp Ser Lys Leu Leu Val Phe Phe Arg Thr
 580 585 590
 Glu Ala Ile Leu Lys Ala Ser Trp Pro Gln Arg Gln Val Asp Ile Ala
 595 600 605
 Asp Ile Glu Asn Glu Glu Asn Arg Tyr Cys Leu Phe Met Glu Leu Leu
 610 615 620
 Glu Ser Ser His His Glu Ala Glu Phe Gln His Leu Val Leu Leu Leu
 625 630 635 640
 Gln Ala Trp Pro Pro Met Lys Ser Glu Tyr Val Ile Thr Asn Asn Pro
 645 650 655
 Trp Val Arg Leu Ala Thr Val Met Leu Thr Arg Cys Thr Met Glu Asn
 660 665 670
 Lys Glu Gly Leu Gly Asn Glu Val Leu Lys Met Cys Arg Ser Leu Tyr
 675 680 685
 Asn Thr Lys Gln Met Leu Pro Ala Glu Gly Val Lys Glu Leu Cys Leu
 690 695 700
 Leu Leu Leu Asn Gln Ser Leu Leu Leu Pro Ser Leu Lys Leu Leu Leu
 705 710 715 720
 Glu Ser Arg Asp Glu His Leu His Glu Met Ala Leu Glu Gln Ile Thr
 725 730 735
 Ala Val Thr Thr Val Asn Asp Ser Asn Cys Asp Gln Glu Leu Leu Ser
 740 745 750
 Leu Leu Leu Asp Ala Lys Leu Leu Val Lys Cys Val Ser Thr Pro Phe
 755 760 765
 Tyr Pro Arg Ile Val Asp His Leu Leu Ala Ser Leu Gln Gln Gly Arg
 770 775 780
 Trp Asp Ala Glu Glu Leu Gly Arg His Leu Arg Glu Ala Gly His Glu
 785 790 795 800
 Ala Glu Ala Gly Ser Leu Leu Leu Ala Val Arg Gly Thr His Gln Ala
 805 810 815
 Phe Arg Thr Phe Ser Thr Ala Leu Arg Ala Ala Gln His Trp Val *
 820 825 830 831

<210> 1490
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 1490
 Met Trp Phe Leu Leu Val Ser Val Val Cys Leu Tyr Gly Ile Gly Glu
 1 5 10 15
 Gly Asn Phe Phe Ser Leu Ala Ser Val Phe Ser Leu Leu Ser Leu Cys
 20 25 30
 Leu His Leu Leu Leu Trp Lys Arg Ala Phe Asp Arg Thr Asp Val Leu
 35 40 45
 Thr Ser Glu Trp Ile Phe *
 50 54

<210> 1491
 <211> 134
 <212> PRT
 <213> Homo sapiens

<400> 1491
 Met Thr Thr Thr Phe Pro Pro Arg Lys Met Val Ala Gln Phe Leu Leu
 1 5 10 15
 Val Ala Gly Asn Val Ala Asn Ile Thr Thr Val Ser Leu Trp Glu Glu
 20 25 30
 Phe Ser Ser Ser Asp Leu Ala Asp Leu Arg Phe Leu Asp Met Ser Gln
 35 40 45
 Asn Gln Phe Gln Tyr Leu Pro Asp Gly Phe Leu Arg Lys Met Pro Ser
 50 55 60
 Leu Ser His Leu Asn Leu His Gln Asn Cys Leu Met Thr Leu His Ile
 65 70 75 80
 Arg Glu His Glu Pro Pro Gly Ala Leu Thr Glu Leu Asp Leu Ser His
 85 90 95
 Asn Gln Leu Ser Glu Leu His Leu Ala Pro Gly Leu Ala Ser Cys Leu
 100 105 110
 Gly Ser Leu Arg Leu Phe Asn Leu Ser Ser Asn Gln Leu Leu Gly Val
 115 120 125
 Pro Pro Gly Pro Leu Tyr
 130 134

<210> 1492
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 1492
 Met Arg Ser Glu Trp Phe Tyr Lys Trp Phe Phe Pro Pro Phe Ala Leu
 1 5 10 15
 His Phe Ser Leu Leu Pro Pro Cys Glu Glu Gly His Val Cys Leu Pro
 20 25 30
 Met Cys His Glu Cys Lys Phe Pro Glu Ala Ser Pro Ala Thr Met Asn
 35 40 45

Cys Glu Ser Ile Lys Pro Leu Phe Leu Ile Asn Tyr Pro Val Ser Asn
 50 55 60
 Lys Ser Leu Leu Ala Thr *
 65 70

<210> 1493
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 1493
 Met Trp Ile Tyr Phe Trp Thr Leu Asn Ser Val Pro Val Ile Tyr Met
 1 5 10 15
 Ser Thr Leu Met Ser Ile Pro His Tyr Phe Asp Tyr Cys Cys Phe Ile
 20 25 30
 Val Ser Asp Ile Met Leu Pro Glu Ile Thr Phe Ser Thr Phe Ile Leu
 35 40 45
 Leu Leu Met Val Ala Leu Ala Ile Arg Gly Pro Leu His Phe Arg Arg
 50 55 60
 His Phe Arg Ile Asn Leu Ser Ile Ala Thr Lys Asn Ala *
 65 70 75 77

<210> 1494
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 1494
 Met Ala Gly Leu Asn Cys Gly Val Ser Ile Ala Leu Leu Gly Val Leu
 1 5 10 15
 Leu Leu Gly Ala Ala Arg Leu Pro Arg Gly Ala Glu Ala Phe Glu Ile
 20 25 30
 Ala Leu Pro Arg Glu Ser Asn Ile Thr Val Leu Ile Lys Leu Gly Thr
 35 40 45
 Pro Thr Leu Leu Ala Lys Pro Cys Tyr Ile Val Ile Ser Lys Arg His
 50 55 60
 Ile Thr Met Leu Ser Ile Lys Ser Gly Glu Arg Ile Val Phe Thr Phe
 65 70 75 80
 Ser Cys Gln Ser Pro Glu Asn His Phe Val Ile Glu Ile Gln Lys Asn
 85 90 95
 Ile Asp Cys Met Ser Gly Pro Cys Pro Phe Gly Glu Val Gln Leu Gln
 100 105 110
 Pro Ser Thr Ser Leu Leu Pro Thr Leu
 115 120 121

<210> 1495
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 1495

```

Met Glu Asn Cys Val Gly Glu Arg Thr His Pro Leu Phe Val Val Tyr
 1          5          10          15
Leu Ala Leu Gln Leu Val Val Leu Leu Trp Gly Leu Tyr Leu Ala Trp
          20          25          30
Ser Gly Leu Arg Phe Phe Gln Pro Trp Gly Leu Trp Leu Arg Ser Ser
          35          40          45
Gly Leu Leu Phe Ala Thr Phe Gln Leu Leu Ser Leu Phe Ser Leu Val
          50          55          60
Ala Ser Leu Leu Leu Val Ser His Leu Tyr Leu Val Ala Ser Asn Thr
65          70          75          80
Thr Thr Trp Glu Phe Ile Ser Ser His His Val
          85          90 91

```

<210> 1496

<211> 72

<212> PRT

<213> Homo sapiens

<400> 1496

```

Met Ile Glu Thr Trp Leu Trp Leu Leu Leu Asn Val Gly Gly Thr
 1          5          10          15
Gly Gln Trp Ser Gly Pro Thr Phe Arg Arg Glu Asn Val Leu Pro Ala
          20          25          30
Ala His Ile Gly Pro Lys Tyr Gly Pro Leu Leu Pro Ser Thr Ala Lys
          35          40          45
Gly Thr Val Lys Val Ser Cys Pro Ser Ser Thr Pro His Pro Pro Leu
          50          55          60
Gln Gly Lys Gly Thr Pro Asp *
65          70 71

```

<210> 1497

<211> 196

<212> PRT

<213> Homo sapiens

<400> 1497

```

Met Ala Pro Arg Ala Leu Pro Gly Ser Ala Val Leu Ala Ala Ala Val
 1          5          10          15
Phe Val Gly Gly Ala Val Ser Ser Pro Leu Val Ala Pro Asp Asn Gly
          20          25          30
Ser Ser Arg Thr Leu His Ser Arg Thr Glu Thr Thr Pro Ser Pro Ser
          35          40          45
Asn Asp Thr Gly Asn Gly His Pro Glu Tyr Ile Ala Tyr Ala Leu Val
          50          55          60
Pro Val Phe Phe Ile Met Gly Leu Phe Gly Val Leu Ile Cys His Leu
65          70          75          80
Leu Lys Lys Lys Gly Tyr Arg Cys Thr Thr Glu Ala Glu Gln Asp Ile
          85          90          95
Glu Glu Glu Lys Val Glu Lys Ile Glu Leu Asn Asp Ser Val Asn Glu
          100          105          110
Asn Ser Asp Thr Val Gly Gln Ile Val His Tyr Ile Met Lys Asn Glu
          115          120          125

```

Ala Asn Ala Asp Val Leu Lys Ala Met Val Ala Asp Asn Ser Leu Tyr
 130 135 140
 Asp Pro Glu Ser Pro Val Thr Pro Ser Thr Pro Gly Glu Pro Ala Ser
 145 150 155 160
 Glu Ser Trp Ala Phe Val Thr Arg Gly Asp Ala Arg Glu Ala Arg Leu
 165 170 175
 Trp Pro Ser Ser Ala Tyr Gly Gly Arg Cys Cys Arg Glu Gly Cys Val
 180 185 190
 Ser Ser Val *
 195

<210> 1498
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 1498
 Met Trp Ser Gln Ile Ala Phe Val Arg Ile Pro Phe Cys Phe Ser Leu
 1 5 10 15
 Leu Ser His Ser Asn Ala Trp Phe Val Gln Lys Ala Ala Ser Gln Arg
 20 25 30
 Gln Ala Ser Ile Ser Thr Ala Cys His Cys Pro Ala Glu Ala Gly Gly
 35 40 45
 Glu Arg Ile Thr Val Ser Thr Thr Gly Ala Gln Arg Asn Ala Ala Met
 50 55 60
 Val Pro Asp Leu Gln Ser Pro Arg Arg Ser *
 65 70 74

<210> 1499
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 1499
 Met Pro Ser Leu Met Met Val Leu Glu Ala Arg Phe Val Ser Ser Cys
 1 5 10 15
 Leu Ile Phe Pro Ser Arg Ala Met Pro Leu Leu Ser Arg Leu Leu Ala
 20 25 30
 Ser Lys Gly Ser Ser Val Asn Val Leu Val Lys Val Leu Phe Gly Gly
 35 40 45
 Thr Phe Ser Cys Ala Ser Ser Ile Ala Thr Gly Leu Thr *
 50 55 60 61

<210> 1500
 <211> 138
 <212> PRT
 <213> Homo sapiens

<400> 1500
 Met Pro Ile Trp Lys Pro Phe Met Ala Trp Met Ala Ala Trp Ala Leu

```

      1           5           10           15
Ala Val Leu Ser Lys Leu Thr Lys Pro Ile His Leu Leu Trp Met Val
      20           25           30
Ala Arg Ser Ile Asn Thr Leu Glu Glu Met Ile Leu Pro Lys Gly Thr
      35           40           45
Asn Ile Cys Val Ser Ser Val Ser Pro Asn Ser Phe Ser Leu Leu Leu
      50           55           60
Leu Gln Glu Gly Arg Arg Leu Glu Asp Ala Val Arg Asp Gly Arg Asp
      65           70           75           80
Gly Arg Gly Gly Ala His Gly Cys Val Leu Leu Asp Ser Gly Glu Gly
      85           90           95
Arg Met Gln Cys Leu Gly His Ser Arg Ala Leu Ser Trp Val Trp His
      100          105          110
Lys Ala Ile Gly Ile Asp Glu Phe Pro Gly Gln Gly Ala His Leu Glu
      115          120          125
Arg Ala Arg His Leu Pro Ser His Trp *
      130          135          137

```

<210> 1501
 <211> 82
 <212> PRT
 <213> Homo sapiens

```

      <400> 1501
Met Ile Leu Phe Thr Arg Ala Trp Phe Glu Leu Val Thr Leu Val Gln
      1           5           10           15
Phe Ile Ile Gly Ser Gln Met Leu Tyr Pro Tyr Leu His Ile Glu Glu
      20           25           30
Phe Val Ile Arg Lys Leu Pro Val Leu Leu Tyr Arg Lys Ser Val Ile
      35           40           45
Arg Tyr Gln Met Ala Ser Ser Pro Cys Leu Gln Met Phe Lys Gln Tyr
      50           55           60
Cys Gly Trp Ser Arg Lys Ser Leu Arg His Ala Val Lys Cys Arg Ala
      65           70           75           80
Arg *
      81

```

<210> 1502
 <211> 54
 <212> PRT
 <213> Homo sapiens

```

      <400> 1502
Met Leu Leu Phe Leu Gly Phe Phe Ile Cys Ser Leu Phe Phe Ser Glu
      1           5           10           15
Leu Ser Thr Gly Thr Thr His Ser Leu Glu Ser Tyr Gln Ile Leu Leu
      20           25           30
Ser Lys Phe Phe Arg His Pro Leu Cys Thr Arg Thr Phe Arg Ile Leu
      35           40           45
Pro Pro Phe His Phe *
      50           53

```

<210> 1503
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 1503
 Met Gly Trp Pro Pro Ser Leu Trp Val Leu Ala Leu Ala Tyr Cys Cys
 1 5 10 15
 Lys Ala Pro Gln Arg Leu Cys Ser Gly Ser Ser Pro Cys Arg Phe Ser
 20 25 30
 Ser Arg Met Ser Ala Ser Pro Ala Thr Asn Arg Asn Glu Asn Thr Thr
 35 40 45
 Ser Trp Ile Ala Ser Leu His Lys Tyr Val Ile Ser Gln *
 50 55 60 61

<210> 1504
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1504
 Met Trp Lys Gln Ile Ser Pro Ile Gly Asn Leu Val Thr Ala Ile Phe
 1 5 10 15
 Phe Cys Val Leu Cys Gln Gln Arg Tyr Gln Trp Leu Ala Arg Asp Ala
 20 25 30
 Phe Asn Thr Gln Ser Ile Leu Ser Pro Pro Ile Trp Val *
 35 40 45

<210> 1505
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1505
 Met Val Ala Val Ser Leu Leu Cys Pro Trp Pro Ser Ser Trp Asn Arg
 1 5 10 15
 Arg Ser Cys Gly Arg Ser His Arg Asn Leu Gly Leu Phe Thr Ala Phe
 20 25 30
 Leu Ser Val Pro Glu Phe Val Ile Phe Gly Ala Cys Arg Tyr Trp *
 35 40 45 47

<210> 1506
 <211> 190
 <212> PRT
 <213> Homo sapiens

<400> 1506
 Met Trp Leu Leu Gly Pro Leu Cys Leu Leu Leu Ser Ser Ala Ala Glu

```

      1           5           10           15
Ser Gln Leu Leu Pro Gly Asn Asn Phe Thr Asn Glu Cys Asn Ile Pro
      20           25           30
Gly Asn Phe Val Cys Ser Asn Gly Arg Cys Ile Pro Gly Ala Trp Gln
      35           40           45
Cys Asp Gly Leu Pro Asp Cys Phe Asp Lys Ser Asp Glu Lys Glu Cys
      50           55           60
Pro Lys Ala Lys Ser Lys Cys Gly Pro Thr Phe Phe Pro Cys Ala Ser
      65           70           75           80
Gly Ile His Cys Ile Ile Gly Arg Phe Arg Cys Asn Gly Phe Glu Asp
      85           90           95
Cys Pro Asp Gly Ser Asp Glu Glu Asn Cys Thr Ala Asn Pro Leu Leu
      100          105          110
Cys Ser Thr Ala Arg Tyr His Cys Lys Asn Gly Leu Cys Ile Asp Lys
      115          120          125
Ser Phe Ile Cys Asp Gly Gln Asn Asn Cys Gln Asp Asn Ser Asp Glu
      130          135          140
Glu Ser Cys Glu Ser Ser Gln Val Phe Arg Pro Gln Val Ser Glu Trp
      145          150          155          160
Gln Ala Arg Pro Arg Asp Leu Cys Ala Arg Trp Asn Ile Pro Phe Leu
      165          170          175
Gly Arg Leu Glu Arg Pro Trp Ser Phe Thr Ser Ser Gln Gln
      180          185          190

```

<210> 1507
 <211> 60
 <212> PRT
 <213> Homo sapiens

```

      <400> 1507
Met Tyr Arg Pro Ala Pro Pro Arg Gln Asn Arg Gln Leu His Pro Tyr
      1           5           10           15
Leu Leu Ala Ser Trp Pro Lys Ala Leu Asn Cys Thr Leu Cys Val Cys
      20           25           30
Val Cys Val Cys Ala Arg Val Cys Ala Cys Val Cys Met Trp Ser Val
      35           40           45
Thr Ser Leu Trp Leu Thr Cys Leu Ser Gly Val *
      50           55           59

```

<210> 1508
 <211> 48
 <212> PRT
 <213> Homo sapiens

```

      <400> 1508
Met Ser His His Cys Ala Trp Pro Lys Asn Phe Leu Leu Lys Met Leu
      1           5           10           15
Ser Thr Gly Arg Val Gln Trp Leu Met Pro Ile Ile Phe Leu Phe Phe
      20           25           30
Gln Lys Met Gly Gly Asn Met Val Gly Ser Gln Leu Lys Leu Ser *
      35           40           45           47

```

<210> 1509
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 1509
 Met Thr Gly Ser Arg Cys Glu Glu His Val Phe Ser Gln Gln Gln Pro
 1 5 10 15
 Gly His Ile Ala Ser Ile Leu Ile Pro Leu Leu Leu Leu Leu Leu
 20 25 30
 Val Leu Ala Ala Gly Val Val Phe Trp Tyr Lys Arg Arg Val Gln Gly
 35 40 45
 Ala Lys Gly Phe His His Gln Arg Met Thr Asn Gly Ala Met Asn Val
 50 55 60
 Glu Ile Gly Asn Pro Thr Tyr Lys Met Tyr Glu Gly Gly Glu Pro Asp
 65 70 75 80
 Asp Val Gly Gly Leu
 85

<210> 1510
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 1510
 Met Ala Ile Ser Trp Lys Pro Thr Gly Leu Pro Trp His Ser Met Leu
 1 5 10 15
 Gln Val Leu Leu Ala Ala Trp Leu Pro Gly Pro Thr Pro Thr Pro His
 20 25 30
 Ser Ala Leu Pro Ser Phe Ser Pro Pro Ser Leu Pro Pro Lys Met
 35 40 45
 Cys Leu Pro Lys Cys Cys *
 50 54

<210> 1511
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 1511
 Met Val Gly Phe Gly Ala Asn Arg Arg Ala Gly Arg Leu Pro Ser Leu
 1 5 10 15
 Val Leu Gly Val Leu Leu Val Val Ile Val Val Leu Ala Phe Asn Tyr
 20 25 30
 Trp Ser Ile Ser Ser Arg His Val Leu Leu Gln Glu Glu Val Ala Glu
 35 40 45
 Leu Gln Gly Gln Val Gln Arg Thr Glu Val Ala Arg Gly Arg Leu Glu
 50 55 60
 Lys Arg Asn Ser Asp Leu Phe Ala Val Val Gly His Ala Gln Glu Thr
 65 70 75 80
 Asp Arg Pro Glu Gly Gly Arg Leu Arg Pro Pro Gln Gln Pro Ala Ala

Gly Gln Arg Gly Pro Arg Glu Glu Met Arg Gly *
 100 85 90 95
 105 107

<210> 1512
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 1512
 Met Val Ala Arg Val Trp Ser Leu Met Arg Phe Leu Ile Lys Gly Ser
 1 5 10 15
 Val Ala Gly Gly Ala Val Tyr Leu Val Tyr Asp Gln Glu Leu Gly
 20 25 30
 Pro Ser Asp Lys Ser Gln Ala Ala Leu Gln Lys Ala Gly Glu Val Val
 35 40 45
 Pro Pro Ala Met Tyr Gln Phe Ser Gln Tyr Val Cys Gln Gln Thr Gly
 50 55 60
 Leu Gln Ile Pro Gln Leu Pro Ala Pro Pro Lys Ile Tyr Phe Pro Ile
 65 70 75 80
 Arg Asp Ser Trp Asn Ala Gly Ile Met Thr Val Met Ser Ala Leu Ser
 85 90 95
 Val Ala Pro Ser Lys Ala Arg Glu Tyr Ser Lys Glu Gly Trp Glu Tyr
 100 105 110
 Val Lys Ala Arg Thr Lys *
 115 118

<210> 1513
 <211> 973
 <212> PRT
 <213> Homo sapiens

<400> 1513
 Met Val Lys Ser Lys Trp Gly Leu Ala Leu Ala Ala Val Val Thr Val
 1 5 10 15
 Leu Ser Ser Leu Leu Met Ser Val Gly Leu Cys Thr Leu Phe Gly Leu
 20 25 30
 Thr Pro Thr Leu Asn Gly Gly Glu Ile Phe Pro Tyr Leu Val Val Val
 35 40 45
 Ile Gly Leu Glu Asn Val Leu Val Leu Thr Lys Ser Val Val Ser Thr
 50 55 60
 Pro Val Asp Leu Glu Val Lys Leu Arg Ile Ala Gln Gly Leu Ser Ser
 65 70 75 80
 Glu Ser Trp Ser Ile Met Lys Asn Met Ala Thr Glu Leu Gly Ile Ile
 85 90 95
 Leu Ile Gly Tyr Phe Thr Leu Val Pro Ala Ile Gln Glu Phe Cys Leu
 100 105 110
 Phe Ala Val Val Gly Leu Val Ser Asp Phe Phe Leu Gln Met Leu Phe
 115 120 125
 Phe Thr Thr Val Leu Ser Ile Asp Ile Arg Arg Met Glu Leu Ala Asp
 130 135 140
 Leu Asn Lys Arg Leu Pro Pro Glu Ala Cys Leu Pro Ser Ala Lys Pro
 145 150 155 160

Val Gly Gln Pro Thr Arg Tyr Glu Arg Gln Leu Ala Val Arg Pro Ser
 165 170 175
 Thr Pro His Thr Ile Thr Leu Gln Pro Ser Ser Phe Arg Asn Leu Arg
 180 185 190
 Leu Pro Lys Arg Leu Arg Val Val Tyr Phe Leu Ala Arg Thr Arg Leu
 195 200 205
 Ala Gln Arg Leu Ile Met Ala Gly Thr Val Val Trp Ile Gly Ile Leu
 210 215 220
 Val Tyr Thr Asp Pro Ala Gly Leu Arg Asn Tyr Leu Ala Ala Gln Val
 225 230 235 240
 Thr Glu Gln Ser Pro Leu Gly Glu Gly Ala Leu Ala Pro Met Pro Val
 245 250 255
 Pro Ser Gly Met Leu Pro Pro Ser His Pro Asp Pro Ala Phe Ser Ile
 260 265 270
 Phe Pro Pro Asp Ala Pro Lys Leu Pro Glu Asn Gln Thr Ser Pro Gly
 275 280 285
 Glu Ser Pro Glu Arg Gly Gly Pro Ala Glu Val Val His Asp Ser Pro
 290 295 300
 Val Pro Glu Val Thr Trp Gly Pro Glu Asp Glu Glu Leu Trp Arg Lys
 305 310 315 320
 Leu Ser Phe Arg His Trp Pro Thr Leu Phe Ser Tyr Tyr Asn Ile Thr
 325 330 335
 Leu Ala Lys Arg Tyr Ile Ser Leu Leu Pro Val Ile Pro Val Thr Leu
 340 345 350
 Arg Leu Asn Pro Arg Glu Ala Leu Glu Gly Arg His Pro Gln Asp Gly
 355 360 365
 Arg Ser Ala Trp Pro Pro Pro Gly Pro Ile Pro Ala Gly His Trp Glu
 370 375 380
 Ala Gly Pro Lys Gly Pro Gly Gly Val Gln Ala His Gly Asp Val Thr
 385 390 395 400
 Leu Tyr Lys Val Ala Ala Leu Gly Leu Ala Thr Gly Ile Val Leu Val
 405 410 415
 Leu Leu Leu Leu Cys Leu Tyr Arg Val Leu Cys Pro Arg Asn Tyr Gly
 420 425 430
 Gln Leu Gly Gly Gly Pro Gly Arg Arg Arg Gly Glu Leu Pro Cys
 435 440 445
 Asp Asp Tyr Gly Tyr Ala Pro Pro Glu Thr Glu Ile Val Pro Leu Val
 450 455 460
 Leu Arg Gly His Leu Met Asp Ile Glu Cys Leu Ala Ser Asp Gly Met
 465 470 475 480
 Leu Leu Val Ser Cys Cys Leu Ala Gly His Val Cys Val Trp Asp Ala
 485 490 495
 Gln Thr Gly Asp Cys Leu Thr Arg Ile Pro Arg Pro Gly Arg Gln Arg
 500 505 510
 Arg Asp Ser Gly Val Gly Ser Gly Leu Glu Ala Gln Glu Ser Trp Glu
 515 520 525
 Arg Leu Ser Asp Gly Gly Lys Ala Gly Pro Glu Glu Pro Gly Asp Ser
 530 535 540
 Pro Pro Leu Arg His Arg Pro Arg Gly Pro Pro Pro Ser Leu Phe
 545 550 555 560
 Gly Asp Gln Pro Asp Leu Thr Cys Leu Ile Asp Thr Asn Phe Ser Ala
 565 570 575
 Gln Pro Arg Ser Ser Gln Pro Thr Gln Pro Glu Pro Arg His Arg Ala
 580 585 590
 Val Cys Gly Arg Ser Arg Asp Ser Pro Gly Tyr Asp Phe Ser Cys Leu
 595 600 605
 Val Gln Arg Val Tyr Gln Glu Glu Gly Leu Ala Ala Val Cys Thr Pro
 610 615 620
 Ala Leu Arg Pro Pro Ser Pro Gly Pro Val Leu Ser Gln Ala Pro Glu

```

625          630          635          640
Asp Glu Gly Gly Ser Pro Glu Lys Gly Ser Pro Ser Leu Ala Trp Ala
645          650          655
Pro Ser Ala Glu Gly Ser Ile Trp Ser Leu Glu Leu Gln Gly Asn Leu
660          665          670
Ile Val Val Gly Arg Ser Ser Gly Arg Leu Glu Val Trp Asp Ala Ile
675          680          685
Glu Gly Val Leu Cys Cys Ser Ser Glu Glu Val Ser Ser Gly Ile Thr
690          695          700
Ala Leu Val Phe Leu Asp Lys Arg Ile Val Ala Ala Arg Leu Asn Gly
705          710          715          720
Ser Leu Asp Phe Phe Ser Leu Glu Thr His Thr Ala Leu Ser Pro Leu
725          730          735
Gln Phe Arg Gly Thr Pro Gly Arg Gly Ser Ser Pro Ala Ser Pro Val
740          745          750
Tyr Ser Ser Ser Asp Thr Val Ala Cys His Leu Thr His Thr Val Pro
755          760          765
Cys Ala His Gln Lys Pro Ile Thr Ala Leu Lys Ala Ala Ala Gly Arg
770          775          780
Leu Val Thr Gly Ser Gln Asp His Thr Leu Arg Val Phe Arg Leu Glu
785          790          795          800
Asp Ser Cys Cys Leu Phe Thr Leu Gln Gly His Ser Gly Ala Ile Thr
805          810          815
Thr Val Tyr Ile Asp Gln Thr Met Val Leu Ala Ser Gly Gly Gln Asp
820          825          830
Gly Ala Ile Cys Leu Trp Asp Val Leu Thr Gly Ser Arg Val Ser His
835          840          845
Val Phe Ala His Arg Gly Asp Val Thr Ser Leu Thr Cys Thr Thr Ser
850          855          860
Cys Val Ile Ser Ser Gly Leu Asp Asp Leu Ile Ser Ile Trp Asp Arg
865          870          875          880
Ser Thr Gly Ile Lys Phe Tyr Ser Ile Gln Gln Asp Leu Gly Cys Gly
885          890          895
Ala Ser Leu Gly Val Ile Ser Asp Asn Leu Leu Val Thr Gly Gly Gln
900          905          910
Gly Cys Val Ser Phe Trp Asp Leu Asn Tyr Gly Asp Leu Leu Gln Thr
915          920          925
Val Tyr Leu Gly Lys Asn Ser Glu Ala Gln Pro Ala Arg Gln Ile Leu
930          935          940
Val Leu Asp Asn Ala Ala Ile Val Cys Asn Phe Gly Ser Glu Leu Ser
945          950          955          960
Leu Val Tyr Val Pro Ser Val Leu Glu Lys Leu Asp *
965          970          972

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<210> 1514

<211> 77

<212> PRT

<213> Homo sapiens

<400> 1514

```

Met Ile Ser Ser Trp Pro Phe Ser Arg Val Val Arg Phe Trp Phe Leu
1          5          10          15
His Gln Met Val Leu Asp Leu Cys Leu Gly Gln Gly Val Pro Gln Gln
20          25          30
Asn Leu Glu Asn Pro Arg Glu Arg Lys Ser Phe Leu Leu Phe Val Arg
35          40          45

```

Asn Leu Ile Ile Asp Ser Ser Leu Lys Ile Leu Ser Gln Glu Pro Ser
 50 55 60
 Asn Leu Trp Gln Arg Ile Pro Lys Met Met Thr Thr *
 65 70 75 76

<210> 1515
 <211> 148
 <212> PRT
 <213> Homo sapiens

<400> 1515
 Met Leu Gly Ser Arg Leu Met Thr Leu Thr Val Cys Ala Gly Ala Leu
 1 5 10 15
 Ala Arg Gly Arg Gly Thr Gly Thr Cys Glu Thr Arg Gln Glu Gly Lys
 20 25 30
 Gly Gln Asn His Ser Thr Leu Ala Trp Pro His Glu Glu Pro Gly Ala
 35 40 45
 Ser Thr Gly Arg Asp Gly Gly Lys Leu Pro Arg Gly Gln Cys Leu Leu
 50 55 60
 Glu Lys Gly Pro Gly Gly Ala Gly Asp Lys Val Ser Lys Ile Phe Pro
 65 70 75 80
 Ser Cys Ala Leu Ala Leu Leu Ser Leu Ala Asn Pro Gly Pro Arg
 85 90 95
 Gly Pro Arg Glu Phe His Leu Cys Trp Gly Trp Leu Asp Arg Gly Val
 100 105 110
 Thr Gln Glu Ala Val His Val Gly Glu Lys Arg Gly Gly Leu Gly Ser
 115 120 125
 Gly Arg Lys Gly Gly Trp Trp Pro Gly Trp Asp Pro Gly Cys Arg Asp
 130 135 140
 Val Ile Thr *
 145 147

<210> 1516
 <211> 274
 <212> PRT
 <213> Homo sapiens

<400> 1516
 Met Arg Gly Ser Gln Glu Val Leu Leu Met Trp Leu Leu Val Leu Ala
 1 5 10 15
 Val Gly Gly Thr Glu His Ala Tyr Arg Pro Gly Arg Arg Val Cys Ala
 20 25 30
 Val Arg Ala His Gly Asp Pro Val Ser Glu Ser Phe Val Gln Arg Val
 35 40 45
 Tyr Gln Pro Phe Leu Thr Thr Cys Asp Gly His Arg Ala Cys Ser Thr
 50 55 60
 Tyr Arg Thr Ile Tyr Arg Thr Ala Tyr Arg Arg Ser Pro Gly Leu Ala
 65 70 75 80
 Pro Ala Arg Pro Arg Tyr Ala Cys Cys Pro Gly Trp Lys Arg Thr Ser
 85 90 95
 Gly Leu Pro Gly Ala Cys Gly Ala Ala Ile Cys Gln Pro Pro Cys Arg
 100 105 110
 Asn Gly Gly Ser Cys Val Gln Pro Gly Arg Cys Arg Cys Pro Ala Gly

```

      115      120      125
Trp Arg Gly Asp Thr Cys Gln Ser Asp Val Asp Glu Cys Ser Ala Arg
 130      135      140
Arg Gly Gly Cys Pro Gln Arg Cys Val Asn Thr Ala Gly Ser Tyr Trp
 145      150      155      160
Cys Gln Cys Trp Glu Gly His Ser Leu Ser Ala Asp Gly Thr Leu Cys
      165      170      175
Val Pro Lys Gly Gly Pro Pro Arg Val Ala Pro Asn Pro Thr Gly Val
      180      185      190
Asp Ser Ala Met Lys Glu Glu Val Gln Arg Leu Gln Ser Arg Val Asp
      195      200      205
Leu Leu Glu Glu Lys Leu Gln Leu Val Leu Ala Pro Leu His Ser Leu
      210      215      220
Ala Ser Gln Ala Leu Glu His Gly Leu Pro Asp Pro Gly Ser Leu Leu
      225      230      235      240
Val His Ser Phe Gln Gln Leu Gly Arg Ile Asp Ser Leu Ser Glu Gln
      245      250      255
Ile Ser Phe Leu Glu Glu Gln Leu Gly Ser Cys Ser Cys Lys Lys Asp
      260      265      270
Ser *
273

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<210> 1517
<211> 246
<212> PRT
<213> Homo sapiens

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      <400> 1517
Met Thr Leu Phe Pro Val Leu Leu Phe Leu Val Ala Gly Leu Leu Pro
  1      5      10      15
Ser Phe Pro Ala Asn Glu Asp Lys Asp Pro Ala Phe Thr Ala Leu Leu
      20      25      30
Thr Thr Gln Thr Gln Val Gln Arg Glu Ile Val Asn Lys His Asn Glu
      35      40      45
Leu Arg Arg Ala Val Ser Pro Pro Ala Arg Asn Met Leu Lys Met Glu
      50      55      60
Trp Asn Lys Glu Ala Ala Asn Ala Gln Lys Trp Ala Asn Gln Cys
      65      70      75      80
Asn Tyr Arg His Ser Asn Pro Lys Asp Arg Met Thr Ser Leu Lys Cys
      85      90      95
Gly Glu Asn Leu Tyr Met Ser Ser Ala Ser Ser Ser Trp Ser Gln Ala
      100      105      110
Ile Gln Ser Trp Phe Asp Glu Tyr Asn Asp Phe Asp Phe Gly Val Gly
      115      120      125
Pro Lys Thr Pro Asn Ala Val Val Gly His Tyr Thr Gln Val Val Trp
      130      135      140
Tyr Ser Ser Tyr Leu Val Gly Cys Gly Asn Ala Tyr Cys Pro Asn Gln
      145      150      155      160
Lys Val Leu Lys Tyr Tyr Tyr Val Cys Gln Tyr Cys Pro Ala Gly Asn
      165      170      175
Trp Ala Asn Arg Leu Tyr Val Pro Tyr Glu Gln Gly Ala Pro Cys Ala
      180      185      190
Ser Cys Pro Asp Asn Cys Asp Asp Gly Leu Cys Thr Asn Gly Cys Lys
      195      200      205
Tyr Glu Asp Leu Tyr Ser Asn Cys Lys Ser Leu Lys Leu Thr Leu Thr
      210      215      220

```

Cys Lys His Gln Leu Val Arg Asp Ser Cys Lys Ala Ser Cys Asn Cys
 225 230 235 240
 Ser Asn Ser Ile Tyr *
 245

<210> 1518
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 1518
 Met Arg Asn Arg Arg Thr Glu Arg Thr Cys Thr Pro Pro Leu Ala Ser
 1 5 10 15
 Pro Tyr Asn Leu Val Pro His Leu Gln Asn Leu Leu Ala Val Leu Leu
 20 25 30
 Met Ile Leu Val Leu Thr Pro Met Val Leu Asn Pro His Lys Leu Tyr
 35 40 45
 Gln Met Met Thr Gln Asn Ile Leu Leu Gln Lys Pro Gln Lys Asn Phe
 50 55 60
 Ile Trp Thr Ala Leu Lys Gly Asn Leu Ser Tyr Pro Arg Asn Leu Leu
 65 70 75 80
 Leu Gln Ser His Leu Ser Leu Leu Leu His Ser Leu Leu Leu Glu Leu
 85 90 95
 Asn Gln Arg Val Cys Leu Leu Pro Arg Ser Leu Ile Asp Pro Gly Lys
 100 105 110
 Arg Leu Lys Lys Lys Pro Met Glu Thr Phe
 115 120 122

<210> 1519
 <211> 249
 <212> PRT
 <213> Homo sapiens

<400> 1519
 Met Gly Leu Ser Ile Phe Leu Leu Leu Cys Val Leu Gly Leu Ser Gln
 1 5 10 15
 Ala Ala Thr Pro Lys Ile Phe Asn Gly Thr Glu Cys Gly Arg Asn Ser
 20 25 30
 Gln Pro Trp Gln Val Gly Leu Phe Glu Gly Thr Ser Leu Arg Cys Gly
 35 40 45
 Gly Val Leu Ile Asp His Arg Trp Val Leu Thr Ala Ala His Cys Ser
 50 55 60
 Gly Ser Arg Tyr Trp Val Arg Leu Gly Glu His Ser Leu Ser Gln Leu
 65 70 75 80
 Asp Trp Thr Glu Gln Ile Arg His Ser Gly Phe Ser Val Thr His Pro
 85 90 95
 Gly Tyr Leu Gly Ala Ser Thr Ser His Glu His Asp Leu Arg Leu Leu
 100 105 110
 Arg Leu Arg Leu Pro Val Arg Val Thr Ser Ser Val Gln Pro Leu Pro
 115 120 125
 Leu Pro Asn Asp Cys Ala Thr Ala Gly Thr Glu Cys His Val Ser Gly
 130 135 140
 Trp Gly Ile Thr Asn His Pro Arg Asn Pro Phe Pro Asp Leu Leu Gln

145 150 155 160
 Cys Leu Asn Leu Ser Ile Val Ser His Ala Thr Cys His Gly Val Tyr
 165 170 175
 Pro Gly Arg Ile Thr Ser Asn Met Val Cys Ala Gly Gly Val Pro Gly
 180 185 190
 Gln Asp Ala Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Cys Gly Gly
 195 200 205
 Val Leu Gln Gly Leu Val Ser Trp Gly Ser Val Gly Pro Cys Gly Gln
 210 215 220
 Asp Gly Ile Pro Gly Val Tyr Thr Tyr Ile Cys Lys Tyr Val Asp Trp
 225 230 235 240
 Ile Arg Met Ile Met Arg Asn Asn *
 245 248

<210> 1520
 <211> 292
 <212> PRT
 <213> Homo sapiens

<400> 1520
 Met Leu Val Leu Gln Ile Leu Leu Cys Ile Arg Glu Phe Ile Leu Glu
 1 5 10 15
 Arg Ser Leu Ile Asn Val Lys Asn Val Ala Lys Ser Leu Ala Val Val
 20 25 30
 Leu Ala Leu Leu Asn Ile Gly Lys Phe Ile Leu Glu Lys Ile Phe Thr
 35 40 45
 Asn Ala Lys Tyr Val Leu Asn Leu Leu Val Ser Gln Ile Leu Leu
 50 55 60
 Cys Met Arg Glu Phe Ile Leu Glu Arg Asn Pro Ile Asn Val Lys Asn
 65 70 75 80
 Val Ala Lys Pro Phe Leu Ile Val His Thr Leu Phe Asp Ile Ile Glu
 85 90 95
 Phe Ile Leu Glu Lys Asn His Thr Asn Val Lys His Val Ala Asn Leu
 100 105 110
 Leu Val Thr Pro Gln Val Leu Leu Cys Ile Gly Glu Leu Ile Leu Glu
 115 120 125
 Arg Asn Pro Ile His Val Lys Asn Val Ala Lys Pro Leu Val Ile Val
 130 135 140
 Gln Met Leu Phe Ser Ile Gly Glu Phe Ile Leu Ala Arg Asp Pro Thr
 145 150 155 160
 Asn Val Lys Asn Val Ala Lys Pro Ser Thr Ile Gly His Thr Ser Leu
 165 170 175
 His Ile Lys Glu Val Ile Leu Glu Arg Asp Pro Thr Asn Val Lys Asn
 180 185 190
 Val Ala Lys Pro Ser Thr Leu Gly His Thr Ser Leu His Ile Gly Glu
 195 200 205
 Asp Ile Leu Glu Arg Asp Pro Thr Asn Val Met Asn Val Val Lys Pro
 210 215 220
 Ser Ala Ile Gly His Thr Ser Leu His Ile Gly Glu Val Ile Val Glu
 225 230 235 240
 Arg Asp Pro Thr Asn Val Lys Asn Val Ala Lys Pro Leu Thr Leu Gly
 245 250 255
 His Thr Ser Leu His Ile Arg Glu Val Ile Leu Glu Lys Asn Phe Lys
 260 265 270
 Asn Val Lys His Gly Ala Asp Phe Leu Leu Val Thr His Val Leu Leu
 275 280 285

Cys Ile Arg *
290 291

<210> 1521
<211> 129
<212> PRT
<213> Homo sapiens

<400> 1521
Met Gly Ser Thr Ala Ile Leu Ala Leu Leu Leu Ala Val Leu Gln Gly
1 5 10 15
Val Cys Ala Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys
20 25 30
Pro Gly Glu Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe
35 40 45
Thr Ser Tyr Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu
50 55 60
Glu Trp Met Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser
65 70 75 80
Pro Ser Phe Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser
85 90 95
Thr Ala Tyr Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met
100 105 110
Tyr Tyr Cys Ala Arg His Thr Val Arg Glu Thr Ser Pro Glu Pro Val
115 120 125 128
*

<210> 1522
<211> 66
<212> PRT
<213> Homo sapiens

<400> 1522
Met Val Val Val Leu Pro Cys Phe Ala Val Leu Lys Leu Leu Phe Gly
1 5 10 15
Gln Ser Lys Leu Gly Pro Met Gln Pro Ser Gln Ser Gly Leu Asp Pro
20 25 30
Val Gly Ala Gly Met Ser Ala Ser Ile Ala Asp Gly Ser Arg Ala Thr
35 40 45
Ala Asp Lys Ala Val Leu Leu Asp Pro Thr Ser Leu Leu Leu Glu Tyr
50 55 60
Thr *
65

<210> 1523
<211> 131
<212> PRT
<213> Homo sapiens

<400> 1523

```

Met Ile Leu Leu Ala Phe Leu Val Cys Trp Gly Pro Leu Phe Gly Leu
 1           5           10           15
Leu Leu Ala Asp Val Phe Gly Ser Asn Leu Trp Ala Gln Glu Tyr Leu
           20           25           30
Arg Gly Met Asp Trp Ile Leu Ala Leu Ala Val Leu Asn Ser Ala Val
           35           40           45
Asn Pro Ile Ile Tyr Ser Phe Arg Ser Arg Glu Val Cys Arg Ala Val
           50           55           60
Leu Ser Phe Leu Cys Cys Gly Cys Leu Arg Leu Gly Met Arg Gly Pro
           65           70           75           80
Gly Asp Cys Leu Ala Arg Ala Val Glu Ala His Ser Gly Ala Ser Thr
           85           90           95
Thr Asp Ser Ser Leu Arg Pro Arg Asp Ser Phe Arg Gly Ser Arg Ser
           100          105          110
Leu Ser Phe Arg Met Arg Glu Pro Leu Ser Ser Ile Ser Ser Val Arg
           115          120          125
Ser Ile *
           130

```

<210> 1524

<211> 52

<212> PRT

<213> Homo sapiens

<400> 1524

```

Met Lys Phe Phe Val Phe Ala Leu Ile Leu Ala Leu Met Leu Ser Met
 1           5           10           15
Thr Gly Ala Asp Ser His Ala Lys Arg His His Gly Tyr Lys Arg Lys
           20           25           30
Phe His Glu Lys His His Ser His Arg Gly Tyr Arg Ser Asn Tyr Leu
           35           40           45
Tyr Asp Asn *
           50           51

```

<210> 1525

<211> 246

<212> PRT

<213> Homo sapiens

<400> 1525

```

Met Thr Leu Phe Pro Val Leu Leu Phe Leu Val Ala Gly Leu Leu Pro
 1           5           10           15
Ser Phe Pro Ala Asn Glu Asp Lys Asp Pro Ala Phe Thr Ala Leu Leu
           20           25           30
Thr Thr Gln Thr Gln Val Gln Arg Glu Ile Val Asn Lys His Asn Glu
           35           40           45
Leu Arg Arg Ala Val Ser Pro Ala Arg Asn Met Leu Lys Met Glu
           50           55           60
Trp Asn Lys Glu Ala Ala Ala Asn Ala Gln Lys Trp Ala Asn Gln Cys
           65           70           75           80
Asn Tyr Arg His Ser Asn Pro Lys Asp Arg Met Thr Ser Leu Lys Cys
           85           90           95

```


Gly Glu Asn Leu Tyr Met Ser Ser Ala Ser Ser Ser Trp Ser Gln Ala
 100 105 110
 Ile Gln Ser Trp Phe Asp Glu Tyr Asn Asp Phe Asp Phe Gly Val Gly
 115 120 125
 Pro Lys Thr Pro Asn Ala Val Val Gly His Tyr Thr Gln Val Val Trp
 130 135 140
 Tyr Ser Ser Tyr Leu Val Gly Cys Gly Asn Ala Tyr Cys Pro Asn Gln
 145 150 155 160
 Lys Val Leu Lys Tyr Tyr Tyr Val Cys Gln Tyr Cys Pro Ala Gly Asn
 165 170 175
 Trp Ala Asn Arg Leu Tyr Val Pro Tyr Glu Gln Gly Ala Pro Cys Ala
 180 185 190
 Ser Cys Pro Asp Asn Cys Asp Asp Gly Leu Cys Thr Asn Gly Cys Lys
 195 200 205
 Tyr Glu Asp Leu Tyr Ser Asn Cys Lys Ser Leu Lys Leu Thr Leu Thr
 210 215 220
 Cys Lys His Gln Leu Val Arg Asp Ser Cys Lys Ala Ser Cys Asn Cys
 225 230 235 240
 Ser Asn Ser Ile Tyr *
 245

<210> 1526
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1526
 Met Val Leu Gly Ala Arg Ala Val Ile Ser Phe Cys Ile Leu Ser Ala
 1 5 10 15
 Met Pro Gly Tyr Met Val Val Pro Pro Glu Arg Thr Leu Leu Ala Tyr
 20 25 30
 Lys Ser Leu Arg Met Ser Met Ser His Phe Met Met Glu Leu *
 35 40 45 46

<210> 1527
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 1527
 Met Ser Ala Arg Gly Trp Pro Cys Glu Ala Phe Val Leu Ala Gln Val
 1 5 10 15
 Cys Trp Cys Trp Leu Cys Val Arg Gly Arg Leu Cys Glu Ala Leu Thr
 20 25 30
 Leu Ala Gln Val Arg Arg His Gln Val Cys Val Pro Gly Gln Pro Cys
 35 40 45
 Glu Ala Leu Thr Leu Thr Gln Val Arg Arg His Gln Leu Cys Val Trp
 50 55 60
 Gly Arg Pro Cys Glu Ala Leu Thr Leu Ala Gln Val Cys Trp Leu Trp
 65 70 75 80
 Leu Cys Val Gln Gly Trp Pro His Glu Ala Leu Thr Leu Ala Gln Val
 85 90 95
 Arg Gln His Gln Val Cys Val Arg Gly Arg Pro Cys Glu Ala Leu Ser

100 105 110
 Leu Ala Gln Val Arg *
 115 117

<210> 1528
 <211> 92
 <212> PRT
 <213> Homo sapiens

<400> 1528
 Met Lys Val Ser Ala Ala Ala Leu Ala Val Ile Leu Ile Ala Thr Ala
 1 5 10 15
 Leu Cys Ala Pro Ala Ser Ala Ser Pro Tyr Ser Ser Asp Thr Thr Pro
 20 25 30
 Cys Cys Phe Ala Tyr Ile Ala Arg Pro Leu Pro Arg Ala His Ile Lys
 35 40 45
 Glu Tyr Phe Tyr Thr Ser Gly Lys Cys Ser Asn Pro Ala Val Val Phe
 50 55 60
 Val Thr Arg Lys Asn Arg Gln Val Cys Ala Asn Pro Glu Lys Lys Trp
 65 70 75 80
 Val Arg Glu Tyr Ile Asn Ser Leu Glu Met Ser *
 85 90 91

<210> 1529
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 1529
 Met Tyr Cys Trp Trp Cys Trp Leu Cys Thr Ala Met Val Cys Ser Gly
 1 5 10 15
 Val Leu Cys Arg Pro Leu Trp Glu Pro Leu Ser Pro Arg Leu Ser Val
 20 25 30
 Phe Trp Ala Gly Arg Tyr Leu Gly Phe Trp Cys Met Gly Cys Cys Arg
 35 40 45
 Met Ala Met Tyr Cys Val Ser Ser Cys Ser Arg Phe Ser Gly Glu Ser
 50 55 60
 Gly Phe Arg Arg Ile Pro *
 65 70

<210> 1530
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 1530
 Met Val Leu Arg Val Cys Phe Leu Ile Phe Val Leu Tyr His Asn Leu
 1 5 10 15
 Gly Lys Tyr Ile Phe Ile Ile Tyr Val Tyr Arg Cys Lys Asp Arg Phe
 20 25 30

```

Thr Lys Gly Cys Ile Thr Val Val Gln Gln Ser Gly Ile Leu Thr Glu
      35              40              45
Leu Lys Gly Gln Gly Ser Phe Leu Tyr Val Leu Leu Cys Leu Asp Ile
      50              55              60
Thr Leu Leu Val Arg Ser Val Phe Lys Asn Asp Asn Ser Arg Phe Asp
      65              70              75              80
Phe Gln Ala Asn *
              84

```

```

<210> 1531
<211> 60
<212> PRT
<213> Homo sapiens

```

```

<400> 1531
Met Leu Pro Gln Val Phe Leu Gly Phe Thr Lys Val Arg Leu Leu Arg
  1              5              10              15
Leu Arg Asn Pro Trp Gly Cys Val Glu Trp Thr Gly Ala Trp Ser Asp
              20              25              30
Arg Trp Asp Gly Ser Gly Val Gly Val Gly Leu Asp Pro Thr Cys Pro
              35              40              45
Pro Leu Thr Pro Gln Ser Leu Gln Leu Pro Thr Leu
      50              55              60

```

```

<210> 1532
<211> 53
<212> PRT
<213> Homo sapiens

```

```

<400> 1532
Met Leu Gly Leu His Gln Leu Cys Ser Leu Leu Val Gln Leu Asp Phe
  1              5              10              15
Tyr Leu Gln Tyr Leu Tyr Gly Gln Phe Gln Gln Phe Ser Met Cys Leu
              20              25              30
Asp Leu Asn His Val His Phe Leu Met Phe Pro Ser Leu Val Cys Ala
              35              40              45
Met Phe Arg Phe *
      50              52

```

```

<210> 1533
<211> 741
<212> PRT
<213> Homo sapiens

```

```

<400> 1533
Met Ala Glu Ser Arg Gly Arg Leu Tyr Leu Trp Met Cys Leu Ala Ala
  1              5              10              15
Ala Leu Ala Ser Phe Leu Met Gly Phe Met Val Gly Trp Phe Ile Lys
              20              25              30
Pro Leu Lys Glu Thr Thr Thr Ser Val Arg Tyr His Gln Ser Ile Arg

```

[illegible]

Ala Tyr Phe Gln Arg Leu Gly Ile Ala Ser Gly Arg Ala Arg Tyr Thr
 515 520 525
 Lys Asn Lys Lys Thr Asp Lys Tyr Ser Ser Tyr Pro Val Tyr His Thr
 530 535 540
 Ile Tyr Glu Thr Phe Glu Leu Val Glu Lys Phe Tyr Asp Pro Thr Phe
 545 550 555 560
 Lys Lys Gln Leu Ser Val Ala Gln Leu Arg Gly Ala Leu Val Tyr Glu
 565 570 575
 Leu Val Asp Ser Lys Ile Ile Pro Phe Asn Ile Gln Asp Tyr Ala Glu
 580 585 590
 Ala Leu Lys Asn Tyr Ala Ala Ser Ile Tyr Asn Leu Ser Lys Lys His
 595 600 605
 Asp Gln Gln Leu Thr Asp His Gly Val Ser Phe Asp Ser Leu Phe Ser
 610 615 620
 Ala Val Lys Asn Phe Ser Glu Ala Ala Ser Asp Phe His Lys Arg Leu
 625 630 635 640
 Ile Gln Val Asp Leu Asn Asn Pro Ile Ala Val Arg Met Met Asn Asp
 645 650 655
 Gln Leu Met Leu Leu Glu Arg Ala Phe Ile Asp Pro Leu Gly Leu Pro
 660 665 670
 Gly Lys Leu Phe Tyr Arg His Ile Ile Phe Ala Pro Ser Ser His Asn
 675 680 685
 Lys Tyr Ala Gly Glu Ser Phe Pro Gly Ile Tyr Asp Ala Ile Phe Asp
 690 695 700
 Ile Glu Asn Lys Ala Asn Ser Arg Leu Ala Trp Lys Glu Val Lys Lys
 705 710 715 720
 His Ile Ser Ile Ala Ala Phe Thr Ile Gln Ala Ala Ala Gly Thr Leu
 725 730 735
 Lys Glu Val Leu *
 740

<210> 1534
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1534
 Met Leu Ile Leu Leu His Ile Leu Lys Asn Ile Lys Leu Tyr Leu Val
 1 5 10 15
 Asn Met Leu Lys Thr Lys Leu Cys Phe Tyr Lys Asp Arg Gly Ser Pro
 20 25 30
 Glu Glu Gly Ile Asp Lys Glu Glu Met Lys Leu Gly Gly Arg Lys Trp
 35 40 45
 Thr *
 49

<210> 1535
 <211> 973
 <212> PRT
 <213> Homo sapiens

<400> 1535
 Met Val Lys Ser Lys Trp Gly Leu Ala Leu Ala Ala Val Val Thr Val

1	5	10	15
Leu Ser Ser Leu Leu Met Ser Val Gly Leu Cys Thr Leu Phe Gly Leu			
20	25	30	
Thr Pro Thr Leu Asn Gly Gly Glu Ile Phe Pro Tyr Leu Val Val Val			
35	40	45	
Ile Gly Leu Glu Asn Val Leu Val Leu Thr Lys Ser Val Val Ser Thr			
50	55	60	
Pro Val Asp Leu Glu Val Lys Leu Arg Ile Ala Gln Gly Leu Ser Ser			
65	70	75	80
Glu Ser Trp Ser Ile Met Lys Asn Met Ala Thr Glu Leu Gly Ile Ile			
85	90	95	
Leu Ile Gly Tyr Phe Thr Leu Val Pro Ala Ile Gln Glu Phe Cys Leu			
100	105	110	
Phe Ala Val Val Gly Leu Val Ser Asp Phe Phe Leu Gln Met Leu Phe			
115	120	125	
Phe Thr Val Leu Ser Ile Asp Ile Arg Arg Met Glu Leu Ala Asp			
130	135	140	
Leu Asn Lys Arg Leu Pro Pro Glu Ala Cys Leu Pro Ser Ala Lys Pro			
145	150	155	160
Val Gly Gln Pro Thr Arg Tyr Glu Arg Gln Leu Ala Val Arg Pro Ser			
165	170	175	
Thr Pro His Thr Ile Thr Leu Gln Pro Ser Ser Phe Arg Asn Leu Arg			
180	185	190	
Leu Pro Lys Arg Leu Arg Val Val Tyr Phe Leu Ala Arg Thr Arg Leu			
195	200	205	
Ala Gln Arg Leu Ile Met Ala Gly Thr Val Val Trp Ile Gly Ile Leu			
210	215	220	
Val Tyr Thr Asp Pro Ala Gly Leu Arg Asn Tyr Leu Ala Ala Gln Val			
225	230	235	240
Thr Glu Gln Ser Pro Leu Gly Glu Gly Ala Leu Ala Pro Met Pro Val			
245	250	255	
Pro Ser Gly Met Leu Pro Pro Ser His Pro Asp Pro Ala Phe Ser Ile			
260	265	270	
Phe Pro Pro Asp Ala Pro Lys Leu Pro Glu Asn Gln Thr Ser Pro Gly			
275	280	285	
Glu Ser Pro Glu Arg Gly Gly Pro Ala Glu Val Val His Asp Ser Pro			
290	295	300	
Val Pro Glu Val Thr Trp Gly Pro Glu Asp Glu Glu Leu Trp Arg Lys			
305	310	315	320
Leu Ser Phe Arg His Trp Pro Thr Leu Phe Ser Tyr Tyr Asn Ile Thr			
325	330	335	
Leu Ala Lys Arg Tyr Ile Ser Leu Leu Pro Val Ile Pro Val Thr Leu			
340	345	350	
Arg Leu Asn Pro Arg Glu Ala Leu Glu Gly Arg His Pro Gln Asp Gly			
355	360	365	
Arg Ser Ala Trp Pro Pro Pro Gly Pro Ile Pro Ala Gly His Trp Glu			
370	375	380	
Ala Gly Pro Lys Gly Pro Gly Gly Val Gln Ala His Gly Asp Val Thr			
385	390	395	400
Leu Tyr Lys Val Ala Ala Leu Gly Leu Ala Thr Gly Ile Val Leu Val			
405	410	415	
Leu Leu Leu Leu Cys Leu Tyr Arg Val Leu Cys Pro Arg Asn Tyr Gly			
420	425	430	
Gln Leu Gly Gly Gly Pro Gly Arg Arg Arg Gly Glu Leu Pro Cys			
435	440	445	
Asp Asp Tyr Gly Tyr Ala Pro Pro Glu Thr Glu Ile Val Pro Leu Val			
450	455	460	
Leu Arg Gly His Leu Met Asp Ile Glu Cys Leu Ala Ser Asp Gly Met			
465	470	475	480

Leu Leu Val Ser Cys Cys Leu Ala Gly His Val Cys Val Trp Asp Ala
 485 490 495
 Gln Thr Gly Asp Cys Leu Thr Arg Ile Pro Arg Pro Gly Arg Gln Arg
 500 505 510
 Arg Asp Ser Gly Val Gly Ser Gly Leu Glu Ala Gln Glu Ser Trp Glu
 515 520 525
 Arg Leu Ser Asp Gly Gly Lys Ala Gly Pro Glu Glu Pro Gly Asp Ser
 530 535 540
 Pro Pro Leu Arg His Arg Pro Arg Gly Pro Pro Pro Pro Ser Leu Phe
 545 550 555 560
 Gly Asp Gln Pro Asp Leu Thr Cys Leu Ile Asp Thr Asn Phe Ser Ala
 565 570 575
 Gln Pro Arg Ser Ser Gln Pro Thr Gln Pro Glu Pro Arg His Arg Ala
 580 585 590
 Val Cys Gly Arg Ser Arg Asp Ser Pro Gly Tyr Asp Phe Ser Cys Leu
 595 600 605
 Val Gln Arg Val Tyr Gln Glu Gly Leu Ala Ala Val Cys Thr Pro
 610 615 620
 Ala Leu Arg Pro Pro Ser Pro Gly Pro Val Leu Ser Gln Ala Pro Glu
 625 630 635 640
 Asp Glu Gly Gly Ser Pro Glu Lys Gly Ser Pro Ser Leu Ala Trp Ala
 645 650 655
 Pro Ser Ala Glu Gly Ser Ile Trp Ser Leu Glu Leu Gln Gly Asn Leu
 660 665 670
 Ile Val Val Gly Arg Ser Ser Gly Arg Leu Glu Val Trp Asp Ala Ile
 675 680 685
 Glu Gly Val Leu Cys Cys Ser Ser Glu Glu Val Ser Ser Gly Ile Thr
 690 695 700
 Ala Leu Val Phe Leu Asp Lys Arg Ile Val Ala Ala Arg Leu Asn Gly
 705 710 715 720
 Ser Leu Asp Phe Phe Ser Leu Glu Thr His Thr Ala Leu Ser Pro Leu
 725 730 735
 Gln Phe Arg Gly Thr Pro Gly Arg Gly Ser Ser Pro Ala Ser Pro Val
 740 745 750
 Tyr Ser Ser Ser Asp Thr Val Ala Cys His Leu Thr His Thr Val Pro
 755 760 765
 Cys Ala His Gln Lys Pro Ile Thr Ala Leu Lys Ala Ala Ala Gly Arg
 770 775 780
 Leu Val Thr Gly Ser Gln Asp His Thr Leu Arg Val Phe Arg Leu Glu
 785 790 795 800
 Asp Ser Cys Cys Leu Phe Thr Leu Gln Gly His Ser Gly Ala Ile Thr
 805 810 815
 Thr Val Tyr Ile Asp Gln Thr Met Val Leu Ala Ser Gly Gly Gln Asp
 820 825 830
 Gly Ala Ile Cys Leu Trp Asp Val Leu Thr Gly Ser Arg Val Ser His
 835 840 845
 Val Phe Ala His Arg Gly Asp Val Thr Ser Leu Thr Cys Thr Thr Ser
 850 855 860
 Cys Val Ile Ser Ser Gly Leu Asp Asp Leu Ile Ser Ile Trp Asp Arg
 865 870 875 880
 Ser Thr Gly Ile Lys Phe Tyr Ser Ile Gln Gln Asp Leu Gly Cys Gly
 885 890 895
 Ala Ser Leu Gly Val Ile Ser Asp Asn Leu Leu Val Thr Gly Gly Gln
 900 905 910
 Gly Cys Val Ser Phe Trp Asp Leu Asn Tyr Gly Asp Leu Leu Gln Thr
 915 920 925
 Val Tyr Leu Gly Lys Asn Ser Glu Ala Gln Pro Ala Arg Gln Ile Leu
 930 935 940
 Val Leu Asp Asn Ala Ala Ile Val Cys Asn Phe Gly Ser Glu Leu Ser

945 950 955 960
Leu Val Tyr Val Pro Ser Val Leu Glu Lys Leu Asp *
 965 970 972


```

Pro Ile Thr Val Thr Gly Ala Gln Val Leu Ser Lys Val Gly Gly Ser
      20      25      30
Val Leu Leu Val Ala Ala Arg Pro Gly Phe Gln Val Arg Glu Ala
      35      40      45
Ile Trp Arg Ser Leu Trp Pro Ser Glu Glu Leu Leu Ala Thr Phe Phe
      50      55      60
Arg Gly Ser Leu Glu Thr Leu Tyr His Ser Arg Phe Leu Gly Arg Ala
      65      70      75      80
Gln Leu His Ser Asn Leu Ser Leu Glu Leu Gly Pro Leu Glu Ser Gly
      85      90      95
Asp Ser Gly Asn Phe Ser Val Leu Met Val Asp Thr Arg Gly Gln Pro
      100      105      110
Trp Thr Gln Thr Leu Gln Leu Lys Val Tyr Asp Ala Val Pro Arg Pro
      115      120      125
Val Val Gln Val Phe Ile Ala Val Glu Arg Asp Ala Gln Pro Ser Lys
      130      135      140
Thr Cys Gln Val Phe Leu Ser Cys Trp Ala Pro Asn Ile Ser Glu Ile
      145      150      155      160
Thr Tyr Ser Trp Arg Arg Glu Thr Thr Met Asp Phe Gly Met Glu Pro
      165      170      175
His Ser Leu Phe Thr Asp Gly Gln Val Leu Ser Ile Ser Leu Gly Pro
      180      185      190
Gly Asp Arg Asp Val Ala Tyr Ser Cys Ile Val Ser Asn Pro Val Ser
      195      200      205
Trp Asp Leu Ala Thr Val Thr Pro Trp Asp Ser Cys His His Glu Ala
      210      215      220
Ala Pro Gly Lys Ala Ser Tyr Lys Asp Val Leu Leu Val Val Val Pro
      225      230      235      240
Val Ser Leu Leu Leu Met Leu Val Thr Leu Phe Ser Ala Trp His Trp
      245      250      255
Cys Pro Cys Ser Gly Pro His Leu Arg Ser Lys Gln Leu Trp Met Arg
      260      265      270
Trp Asp Leu Gln Leu Ser Leu His Lys Val Thr Leu Ser Asn Leu Ile
      275      280      285
Ser Thr Val Val Cys Ser Val Val His Gln Gly Leu Val Glu Gln Ile
      290      295      300
His Thr Ala Leu Ile Lys Phe Pro Ser Leu Met Lys Lys Lys
      305      310      315      318

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<210> 1539

<211> 157

<212> PRT

<213> Homo sapiens

<400> 1539

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Met Ile Leu Gln Val Ser Gly Gly Pro Trp Thr Val Ala Leu Thr Ala
      1      5      10      15
Leu Leu Met Val Leu Leu Ile Ser Val Val Gln Ser Arg Ala Thr Pro
      20      25      30
Glu Asn Ser Val Tyr Gln Glu Arg Gln Glu Cys Tyr Ala Phe Asn Gly
      35      40      45
Thr Gln Arg Val Val Asp Gly Leu Ile Tyr Asn Arg Glu Glu Tyr Val
      50      55      60
His Phe Asp Ser Ala Val Gly Glu Phe Leu Ala Val Met Glu Leu Gly
      65      70      75      80
Arg Pro Ile Gly Glu Tyr Phe Asn Ser Gln Lys Asp Phe Met Glu Arg

```

```

      85              90              95
Lys Arg Ala Glu Val Asp Lys Val Cys Arg His Lys Tyr Glu Leu Met
      100              105              110
Glu Pro Leu Ile Arg Gln Arg Arg Gly Asp Val Thr Ile Thr Ala Val
      115              120              125
Arg Gly Cys Trp Thr Thr Ile Leu Ser Gly Tyr Phe Leu Leu Lys Arg
      130              135              140
Gly Val Val Ser Gly Gly Cys Ser Trp Gly Ser Ser *
145              150              155 156

```

<210> 1540
 <211> 135
 <212> PRT
 <213> Homo sapiens

```

    <400> 1540
Met Gly Ser Ser Phe Ile Leu Ala Leu Leu Leu Ala Val Leu Gln Gly
  1              5              10              15
Leu Ser Ala Gly Val Leu Leu Glu Gln Ser Arg Ala Glu Val Lys Lys
      20              25              30
Pro Gly Glu Ser Leu Lys Ile Ser Cys Lys Ala Ser Gly Tyr Arg Phe
      35              40              45
Thr Ser Ala Trp Ile Ala Trp Val Arg Gln Met Pro Gly Lys Gly Leu
      50              55              60
Glu Trp Met Gly Thr Ile Tyr Pro Ala Asp Ser Glu Val Arg Tyr Ser
      65              70              75              80
Pro Ser Leu Gln Gly Gln Val Thr Leu Ser Val Asp Glu Ser Ile Ser
      85              90              95
Thr Ala Tyr Leu Gln Trp Asn Ser Leu Arg Ala Ser Asp Thr Ala Thr
      100              105              110
Tyr Tyr Cys Ala Arg Gln Ile Ile Gly Ala Leu Pro Thr Asp Pro Phe
      115              120              125
Asp Leu Leu Gly Gln Gly Thr
130              135

```

<210> 1541
 <211> 72
 <212> PRT
 <213> Homo sapiens

```

    <400> 1541
Met Cys Val Thr Cys Val Val Cys Met Trp Cys Met Cys Gly Val Cys
  1              5              10              15
Ala Met Tyr Val Ala Cys Val Met His Val Val Cys Glu Val Tyr Val
      20              25              30
Trp Tyr Val Cys Asp Val Cys Ala Phe Gly His Thr Gly Val Val Ile
      35              40              45
Ala Leu Thr Trp Thr Pro Pro Gln Arg Val Ile Arg Lys Gly Gln Val
      50              55              60
Leu Arg Leu Ala Cys Ser Gln *
65              70 71

```

<210> 1542
 <211> 369
 <212> PRT
 <213> Homo sapiens

<400> 1542
 Met Ala Pro Arg Thr Leu Val Leu Leu Leu Ser Gly Ala Leu Ala Leu
 1 5 10 15
 Thr Gln Thr Trp Ala Gly Ser His Ser Met Arg Tyr Phe Phe Thr Ser
 20 25 30
 Val Ser Arg Pro Gly Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr
 35 40 45
 Val Asp Asp Thr Gln Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Gln
 50 55 60
 Arg Met Glu Pro Arg Ala Pro Trp Ile Glu Gln Gly Pro Glu Tyr
 65 70 75 80
 Trp Asp Gly Glu Thr Arg Lys Val Lys Ala His Ser Gln Thr His Arg
 85 90 95
 Val Asp Leu Gly Thr Leu Arg Gly Tyr Tyr Asn Gln Ser Glu Ala Gly
 100 105 110
 Ser His Thr Val Gln Arg Met Tyr Gly Cys Asp Val Gly Ser Asp Trp
 115 120 125
 Arg Phe Leu Arg Gly Tyr His Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr
 130 135 140
 Ile Ala Leu Lys Glu Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala
 145 150 155 160
 Ala Gln Thr Thr Lys His Lys Trp Glu Ala Ala His Val Ala Glu Gln
 165 170 175
 Leu Arg Ala Tyr Leu Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr
 180 185 190
 Leu Glu Asn Gly Lys Glu Thr Leu Gln Arg Thr Asp Ala Pro Lys Thr
 195 200 205
 His Met Thr His His Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys
 210 215 220
 Trp Ala Leu Ser Phe Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg
 225 230 235 240
 Asp Gly Glu Asp Gln Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro
 245 250 255
 Ala Gly Asp Gly Thr Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser
 260 265 270
 Gly Gln Glu Gln Arg Tyr Thr Cys His Val Gln His Glu Gly Leu Pro
 275 280 285
 Lys Pro Leu Thr Leu Arg Trp Glu Pro Ser Ser Gln Pro Thr Ile Pro
 290 295 300
 Ile Val Gly Ile Ile Ala Gly Leu Val Leu Phe Gly Ala Val Ile Thr
 305 310 315 320
 Gly Ala Val Val Ala Ala Val Met Trp Arg Arg Lys Ser Ser Asp Arg
 325 330 335
 Lys Gly Val Lys Asp Arg Lys Gly Gly Ser Tyr Ser Gln Ala Ala Ser
 340 345 350
 Ser Asp Ser Ala Gln Gly Ser Asp Val Ser Leu Thr Ala Cys Lys Val
 355 360 365 368
 *

<210> 1543
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1543
 Met Arg Ser Leu Trp Lys Ala Asn Arg Ala Asp Leu Leu Ile Trp Leu
 1 5 10 15
 Val Thr Phe Thr Ala Thr Ile Leu Leu Asn Leu Asp Leu Gly Leu Glu
 20 25 30
 Asp Ala Val Ile Phe Ser Leu Leu Glu Glu Val Arg Thr Gln Met
 35 40 45 48
 *

<210> 1544
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 1544
 Met Lys Ile Phe Lys Cys Tyr Phe Lys His Thr Leu Gln Gln Lys Val
 1 5 10 15
 Phe Ile Leu Phe Leu Thr Leu Trp Leu Leu Ser Leu Leu Lys Leu Leu
 20 25 30
 Asn Val Arg Arg Leu Phe Pro Gln Lys Asp Ile Tyr Leu Val Glu Tyr
 35 40 45
 Ser Leu Ser Thr Ser Pro Phe Val Arg Asn Arg Tyr Thr His Val Lys
 50 55 60
 Asp Glu Val Arg Tyr Glu Val Asn Cys Ser Gly Ile Tyr Glu Gln Glu
 65 70 75 80
 Pro Leu Glu Ile Gly Lys Ser Leu Glu Ile Arg Arg Arg Asp Ile Ile
 85 90 95
 Asp Leu Glu Asp Asp Asp Val Val Ala Met Thr Ser Asp Cys Asp Ile
 100 105 110
 Tyr Gln Thr Leu Lys Gly Tyr Ala *
 115 120

<210> 1545
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 1545
 Met Phe Leu Leu Lys Trp Pro Leu Trp Val Leu Gln Tyr Val Val Cys
 1 5 10 15
 Ser Leu Lys Asp Lys Ile His Lys Phe Phe Tyr Ile Glu Arg Val Val
 20 25 30
 Gly Glu Leu Arg Val Leu Pro Gln Gly Trp Met Val Ala Leu Ile Leu
 35 40 45
 Arg Lys Asp Phe Val Leu Pro Ser Pro Ser Asp Val Val Asn Ala Ser
 50 55 60

Gln Pro Gly Gln Val *
65 69

<210> 1546
<211> 58
<212> PRT
<213> Homo sapiens

<400> 1546
Met Tyr Gly Met Leu Glu Trp Pro Ile Ser Met Tyr Phe Val Ala Phe
1 5 10 15
Leu His Cys Phe Leu Cys Ser Gly Gly Asn Leu Gly Asp Ser Phe Gln
20 25 30
Ala Leu Pro Glu Leu Cys Ala Asn Cys Ser Ser Ser Pro Arg Val Leu
35 40 45
Cys Cys Val Val Met Ser Pro Leu Pro *

<210> 1547
<211> 65
<212> PRT
<213> Homo sapiens

<400> 1547
Met Trp Leu His Glu Asn Leu Gln Phe Leu Leu Gln Leu Ile Phe His
1 5 10 15
Phe Tyr Trp Thr Val Pro Pro Trp Arg Asp Trp Cys Lys Val Ile Gln
20 25 30
Gln Ala Arg Asp Arg Pro Gly Pro Asn Pro Leu Leu Pro Leu Arg Met
35 40 45
Gly Ala Trp His Leu Pro Gly His Asp Gly Leu Gly Arg Val Cys Thr
50 55 60 64
*

<210> 1548
<211> 78
<212> PRT
<213> Homo sapiens

<400> 1548
Met Phe Ile Ile Phe Leu Ala Phe Ile Ala Leu Lys Arg Ser Lys Ser
1 5 10 15
Val Ile Gly Ala Phe Leu Tyr Leu Ala Ser Ile Phe Leu Ala His Gly
20 25 30
Val Ala Ala His Ile Val Phe Met Ser Ala Phe Tyr Gln Ala Cys Arg
35 40 45
Thr Tyr Leu Trp Trp Ala Leu Cys Glu Asn Leu Arg Met Lys Ser Val
50 55 60
Ser Cys Met Leu Leu Lys Gly Met Ala Cys Leu Leu Thr *

65

70

75

77

<210> 1549
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1549
 Met Leu Tyr Ile Glu Cys Lys Ser His Lys Leu Val Ala Pro Leu Ala
 1 5 10 15
 Val Phe Phe Ala Leu Phe Phe Leu Leu Ile Phe Phe Trp Val Ala Phe
 20 25 30
 Ser Tyr Pro Phe Glu Leu Leu Phe Leu Gln Leu Arg Ser Arg Gln Ala
 35 40 45
 Asp Ile Gly Val Gln *
 50 53

<210> 1550
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 1550
 Met Val Asn Thr Trp Leu Ala Ala Cys Cys Thr Val Val Thr Trp Phe
 1 5 10 15
 Pro Lys Met Ser Met Leu Pro Leu Pro Pro Ser Lys Pro Ser Ala Arg
 20 25 30
 Ser Ser Leu Trp Ile Gly Ala Pro Leu Ala Ser Arg Leu Ala Ser Thr
 35 40 45
 Thr Ser Leu Pro Leu Trp Cys Leu Val Glu Thr Trp Pro Arg Tyr Arg
 50 55 60
 Glu Leu Cys Ala Cys *
 65 69

<210> 1551
 <211> 224
 <212> PRT
 <213> Homo sapiens

<400> 1551
 Met Arg Gln Ile Asn Lys Lys Gly Phe Trp Ser Tyr Gly Pro Val Ile
 1 5 10 15
 Leu Val Val Leu Val Val Ala Val Val Ala Ser Ser Val Asn Ser Tyr
 20 25 30
 Tyr Ser Ser Pro Ala Gln Gln Val Pro Lys Asn Pro Ala Leu Glu Ala
 35 40 45
 Phe Leu Ala Gln Phe Ser Gln Leu Glu Asp Lys Phe Pro Gly Gln Ser
 50 55 60
 Ser Phe Leu Trp Gln Arg Gly Arg Lys Phe Leu Gln Lys His Leu Asn
 65 70 75 80

Ala Ser Asn Pro Thr Glu Pro Ala Thr Ile Ile Phe Thr Ala Ala Arg
 85 90 95
 Glu Gly Arg Glu Thr Leu Lys Cys Leu Ser His His Val Ala Asp Ala
 100 105 110
 Tyr Thr Ser Ser Gln Lys Val Ser Pro Ile Gln Ile Asp Gly Ala Gly
 115 120 125
 Arg Thr Trp Gln Asp Ser Asp Thr Val Lys Leu Leu Val Asp Leu Glu
 130 135 140
 Leu Ser Tyr Gly Phe Glu Asn Gly Gln Lys Ala Ala Val Val His His
 145 150 155 160
 Phe Glu Ser Phe Pro Ala Gly Ser Thr Leu Ile Phe Tyr Lys Tyr Cys
 165 170 175
 Asp His Glu Asn Ala Ala Phe Lys Asp Val Ala Leu Val Leu Thr Val
 180 185 190
 Leu Leu Glu Glu Glu Thr Leu Glu Ala Ser Val Gly Pro Arg Glu Thr
 195 200 205
 Glu Glu Lys Val Arg Asp Leu Leu Trp Ala Lys Phe Thr Asn Ser *
 210 215 220 223

<210> 1552
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1552
 Met Arg Gln Lys Phe Leu Lys Pro Leu Leu Ile Leu Leu His Arg Leu
 1 5 10 15
 Lys Leu Gly Ser Leu Tyr Thr Pro Ser Ser Val Ala Arg Tyr Asp Ser
 20 25 30
 Ser Val Asn Glu Asn Arg Ser Val Asn Ser Ser Ala Tyr Glu Glu Ala
 35 40 45
 Lys Glu Leu Met Leu Ser Met Asn *
 50 55 56

<210> 1553
 <211> 241
 <212> PRT
 <213> Homo sapiens

<400> 1553
 Met Ser Cys Val Leu Gly Gly Val Ile Pro Leu Gly Leu Leu Phe Leu
 1 5 10 15
 Val Cys Gly Ser Gln Gly Tyr Leu Leu Pro Asn Val Thr Leu Leu Glu
 20 25 30
 Glu Leu Leu Ser Lys Tyr Gln His Asn Glu Ser His Ser Arg Val Arg
 35 40 45
 Arg Ala Ile Pro Arg Glu Asp Lys Glu Glu Ile Leu Met Leu His Asn
 50 55 60
 Lys Leu Arg Gly Gln Val Gln Pro Gln Ala Ser Asn Met Glu Tyr Met
 65 70 75 80
 Thr Trp Asp Asp Glu Leu Glu Lys Ser Ala Ala Ala Trp Ala Ser Gln
 85 90 95
 Cys Ile Trp Glu His Gly Pro Thr Ser Leu Leu Val Ser Ile Gly Gln

```

      100      105      110
Asn Leu Gly Ala His Trp Gly Arg Tyr Arg Ser Pro Gly Phe His Val
      115      120      125
Gln Ser Trp Tyr Asp Glu Val Lys Asp Tyr Thr Tyr Pro Tyr Pro Ser
      130      135      140
Glu Cys Asn Pro Trp Cys Pro Glu Arg Cys Ser Gly Pro Met Cys Thr
      145      150      155      160
His Tyr Thr Gln Ile Val Trp Ala Thr Thr Asn Lys Ile Gly Cys Ala
      165      170      175
Val Asn Thr Cys Arg Lys Met Thr Val Trp Gly Glu Val Trp Glu Asn
      180      185      190
Ala Val Tyr Phe Val Cys Asn Tyr Ser Pro Lys Gly Asn Trp Ile Gly
      195      200      205
Glu Ala Pro Tyr Lys Asn Gly Arg Pro Cys Ser Glu Cys Pro Pro Ser
      210      215      220
Tyr Gly Gly Ser Cys Arg Asn Asn Leu Cys Tyr Arg Glu Glu Thr Tyr
      225      230      235      240
Thr
241

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<210> 1554
<211> 56
<212> PRT
<213> Homo sapiens

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<400> 1554
Met Leu Thr Ser Ser Gly Cys Glu Lys His Leu Ser Leu Ala Ser Val
  1      5      10      15
Ser Ser Leu Ser Leu Phe Cys Val Cys Cys Ser Ser Cys Gln Leu Leu
      20      25      30
Trp Glu Asn Glu Cys Glu Arg Gly Ser Gln Arg Gly Trp Pro Pro Gln
      35      40      45
Cys Lys Trp Gly Ser Ala Val *
      50      55

```

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<210> 1555
<211> 64
<212> PRT
<213> Homo sapiens

```

```

<400> 1555
Met Tyr Gly Trp Thr Met Thr Ser Thr Ile Ser Cys Val Phe Trp Ala
  1      5      10      15
Cys Pro Gln Arg Lys Lys Gly Leu Cys Lys Arg Glu Gly Val Gly Ser
      20      25      30
Ser Ile Leu Ile His Ser Leu Ala Ala Phe Val Met Phe Asp Cys Asn
      35      40      45
Leu Pro Leu Leu Val Arg Arg Val Arg Arg Ile His Tyr Pro Ala *
      50      55      60      63

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<210> 1556

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<211> 71
 <212> PRT
 <213> Homo sapiens

<400> 1556
 Met Ser Arg Pro Met Met Thr Ser Ala Ser Trp Thr Ser Val Trp Ser
 1 5 10 15
 Val Phe Val Met Ile Tyr Leu Tyr Phe Glu Arg Lys Tyr Val Leu Pro
 20 25 30
 Leu Leu Gly Val Val Phe Tyr Thr Ile Ile Ser Asn Asp Ala Phe Ala
 35 40 45
 Leu Glu Ser Leu Leu Ser Gly Ile Ser Thr Ser Ala Phe Phe Cys Lys
 50 55 60
 Glu Leu Met Cys Ile Leu *
 65 70

<210> 1557
 <211> 126
 <212> PRT
 <213> Homo sapiens

<400> 1557
 Met Gln Thr His Leu Gly Ala Ser Cys Leu Ser Leu Val Ile Arg Ile
 1 5 10 15
 Ala Leu Leu Phe Leu Val Gln Arg Asp Gly His Leu His Ser Arg Arg
 20 25 30
 Glu Ile Tyr Ala Ile Phe Thr Lys Gly Ser Leu Cys Pro Ala Phe Lys
 35 40 45
 Trp Ala Arg Val Gly Arg Glu Leu Phe Leu His Leu Leu Ser Asn
 50 55 60
 Cys His Gln Leu Lys Ile Ile Leu Ile Pro Lys Cys His Ile Leu Gly
 65 70 75 80
 Trp His Ile Leu Ile Pro Phe Thr Ser Lys Ile Trp Asp Ser Tyr Phe
 85 90 95
 Ile Val Gln Cys Phe Ser His Phe Thr Thr Leu Ala Asn Val Phe Met
 100 105 110
 Glu Glu Asp Asn Pro Val Ser Glu Leu Gln Val Phe Gln *
 115 120 125

<210> 1558
 <211> 135
 <212> PRT
 <213> Homo sapiens

<400> 1558
 Met Lys Gly Ser Ile Phe Thr Leu Phe Leu Phe Ser Val Leu Phe Ala
 1 5 10 15
 Ile Ser Glu Val Arg Ser Lys Glu Ser Val Arg Leu Cys Gly Leu Glu
 20 25 30
 Tyr Ile Arg Thr Val Ile Tyr Ile Cys Ala Ser Ser Arg Trp Arg Arg
 35 40 45
 His Leu Glu Gly Ile Pro Gln Ala Gln Gln Ala Glu Thr Gly Asn Ser

```

      50              55              60
Phe Gln Leu Pro His Lys Arg Glu Phe Ser Glu Glu Asn Pro Ala Gln
 65              70              75              80
Asn Leu Pro Lys Val Asp Ala Ser Gly Glu Asp Arg Leu Trp Gly Gly
      85              90              95
Gln Met Pro Thr Glu Glu Leu Trp Lys Ser Lys Lys His Ser Val Met
      100              105              110
Ser Arg Gln Asp Leu Gln Thr Leu Cys Cys Thr Asp Gly Cys Ser Met
      115              120              125
Thr Asp Leu Ser Ala Leu Cys
 130              135

```

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<210> 1559
<211> 203
<212> PRT
<213> Homo sapiens

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```

<400> 1559
Met Glu Leu Trp Gly Ala Tyr Leu Leu Leu Cys Leu Phe Ser Leu Leu
 1              5              10              15
Thr Gln Val Thr Thr Glu Pro Pro Thr Gln Lys Pro Lys Lys Ile Val
      20              25              30
Asn Ala Lys Lys Asp Val Val Asn Thr Lys Met Phe Glu Glu Leu Lys
      35              40              45
Ser Arg Leu Asp Thr Leu Ala Gln Glu Val Ala Leu Leu Lys Glu Gln
      50              55              60
Gln Ala Leu Gln Thr Val Cys Leu Lys Gly Thr Lys Val His Met Lys
      65              70              75              80
Cys Phe Leu Ala Phe Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu
      85              90              95
Asp Cys Ile Ser Arg Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser
      100              105              110
Glu Asn Asp Ala Leu Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu
      115              120              125
Ala Glu Ile Trp Leu Gly Leu Asn Asp Met Ala Ala Glu Gly Thr Trp
      130              135              140
Val Asp Met Thr Gly Ala Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu
      145              150              155              160
Ile Thr Ala Gln Pro Asp Gly Gly Lys Thr Glu Asn Cys Ala Val Leu
      165              170              175
Ser Gly Ala Ala Asn Gly Lys Trp Phe Asp Lys Arg Cys Arg Asp Gln
      180              185              190
Leu Pro Tyr Ile Cys Gln Phe Gly Ile Val *
      195              200              202

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<210> 1560
<211> 59
<212> PRT
<213> Homo sapiens

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<400> 1560
Met Met Gly Val Ser Gly Cys Met Val Leu Leu Ala Pro Leu Leu Ala
 1              5              10              15

```

Arg Arg Ser Gln Ser Ser Leu Trp Lys Gln Phe Glu Lys Cys Ser Ala
 20 25 30
 Gly Pro Lys Leu Met Leu Ser Lys Phe Leu Pro Trp Gly Lys Leu Ala
 35 40 45
 Met Pro Ser Arg Met Ser Asn Phe Ser Pro *
 50 55 58

<210> 1561
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1561
 Met Lys Phe Ser Asn Val Leu Cys Thr Cys Leu Leu Ile Leu Gln Lys
 1 5 10 15
 Val Lys Leu Phe Tyr Lys Thr Val His Glu Asn Ser Ser Phe Leu Pro
 20 25 30
 Cys Phe Ser His Leu Ile Pro Ser Pro Gln Arg Asn Leu Ser Ser Ile
 35 40 45
 Phe *
 49

<210> 1562
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1562
 Met Leu Phe Ser Ala Val Lys Leu Tyr Cys Cys Gln Phe Trp His Leu
 1 5 10 15
 Ile Leu Asn Arg Val Pro Ser Pro Ser Leu Leu Tyr Ser Cys Gly Leu
 20 25 30
 Ser Thr Asn Val Leu Asn Thr Thr Val Cys Tyr Val Arg Asp Lys Lys
 35 40 45 48
 *

<210> 1563
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 1563
 Met Glu Arg Leu Arg Gly Lys Cys Leu Leu Ile Ile Ala Leu Met Thr
 1 5 10 15
 Pro Leu Cys Thr Thr Thr Ile Ser Ser Ser Cys Ile Glu Gly Ser Ala
 20 25 30
 Asn Phe Phe Cys Lys Glu Pro Gly Ser Asn Cys Val Phe Glu Ala Leu
 35 40 45
 Trp Ala Ile Trp Ser Val Gly Gln Leu Leu Ser Ser Ser Val Val Ala

50
His Lys Gln Pro *
65 68

55

60

<210> 1564
<211> 53
<212> PRT
<213> Homo sapiens

<400> 1564
Met Gln Arg Leu Gly Lys Ala Pro Gly Thr Trp Gln Ala Ile Ser Lys
1 5 10 15
Cys Trp Leu Leu Leu Ser Leu Pro Phe Ser Gln Ser Ile Ile
20 25 30
Ile Ser Leu Arg Ala Gly Thr Met Ser Tyr Leu Pro Leu Tyr Phe Pro
35 40 45
Gln Tyr Phe Pro *
50 52

<210> 1565
<211> 236
<212> PRT
<213> Homo sapiens

<400> 1565
Met Pro Arg Arg Gly Leu Ile Leu His Thr Arg Thr His Trp Leu Leu
1 5 10 15
Leu Gly Leu Ala Leu Leu Cys Ser Leu Val Leu Phe Met Tyr Leu Leu
20 25 30
Glu Cys Ala Pro Gln Thr Asp Gly Asn Ala Ser Leu Pro Gly Val Val
35 40 45
Gly Glu Asn Tyr Gly Lys Glu Tyr Tyr Gln Ala Leu Leu Gln Glu Gln
50 55 60
Glu Glu His Tyr Gln Thr Arg Ala Thr Ser Leu Lys Arg Gln Ile Ala
65 70 75 80
Gln Leu Lys Gln Glu Leu Gln Glu Met Ser Glu Lys Met Arg Ser Leu
85 90 95
Gln Glu Arg Arg Asn Val Gly Ala Asn Gly Ile Gly Tyr Gln Ser Asn
100 105 110
Lys Glu Gln Ala Pro Ser Asp Leu Leu Glu Phe Leu His Ser Gln Ile
115 120 125
Asp Lys Ala Glu Val Ser Ile Gly Ala Lys Leu Pro Ser Glu Tyr Gly
130 135 140
Val Ile Pro Phe Glu Ser Phe Thr Leu Met Lys Val Phe Gln Leu Glu
145 150 155 160
Met Gly Leu Thr Arg His Pro Glu Glu Lys Pro Val Arg Lys Asp Lys
165 170 175
Arg Asp Glu Leu Val Glu Val Ile Glu Ala Gly Leu Glu Val Ile Asn
180 185 190
Asn Pro Asp Glu Asp Asp Glu Gln Glu Asp Glu Glu Gly Pro Leu Gly
195 200 205
Glu Lys Leu Ile Phe Asn Glu Asn Asp Phe Val Glu Gly Tyr Tyr Arg
210 215 220

Thr Glu Arg Asp Lys Gly Thr Gln Tyr Glu Leu Phe
 225 230 235 236

<210> 1566
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1566
 Met Thr Ala Gly Ile Met Pro Leu Gly Leu Cys Pro Cys Ser Cys Leu
 1 5 10 15
 Cys Leu His Ser Arg Thr Gly Ala Phe Ser Ala Val His Trp Ser Pro
 20 25 30
 Val Glu Gly Thr Pro Asp Pro Ser Leu Arg Glu Val Ile Ser Lys Gly
 35 40 45
 Cys Phe Ile Thr Val Phe Pro Gln Asn Asp Pro Ile Asp Thr Val Phe
 50 55 60
 Ser Gln Cys Pro Leu Thr Phe Glu His Ile Arg Glu *
 65 70 75 76

<210> 1567
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 1567
 Met Leu Ile Gly Leu Leu Ala Trp Leu Gln Thr Val Pro Ala His Gly
 1 5 10 15
 Cys Gln Phe Leu Pro Ile Thr Ser Val Thr Ala Thr Val Tyr His Leu
 20 25 30
 Pro Val His Gln Leu Lys Gly Arg Ser Arg Val Gln Lys Asn Leu Thr
 35 40 45
 Leu Asp Asn Glu Gly Glu Gly Thr Trp Thr Thr Cys Leu Glu Phe Leu
 50 55 60
 Glu Ser Leu Ala Gly Trp Arg Leu Gly Trp Gly Val Ser Arg Gly Val
 65 70 75 80
 Arg Glu Trp Leu Cys Leu Gln Gln Val Ser Leu His Gln Thr Pro Gly
 85 90 95
 Leu Pro His Lys Gln Asp Leu *
 100 103

<210> 1568
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1568
 Met Val Val Asn Thr Met Ile Tyr Phe Phe Ile Phe Thr Tyr Thr Leu
 1 5 10 15
 Ala Lys Arg Ala Arg Val His Ile Asn Lys Asn Gly Asn Lys Ala Leu

20 25 30
 Ala Glu Lys Asn Met His Leu Thr Asn His Val Asn Ser *
 35 40 45

<210> 1569
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1569
 Met Leu Met Met Asp Thr Leu Trp Pro Ile Leu Leu Gln Thr Leu Lys
 1 5 10 15
 Val Ile Ser Gln Val Gly His Ala Gly Pro Leu Ala Asn Met Ile His
 20 25 30
 Asp Asn Pro Cys Ile Ile Ala Tyr Arg Ile Thr Leu Arg Leu Val Gly
 35 40 45
 Pro *
 49

<210> 1570
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1570
 Met Val Gly Phe Asp Leu Leu Pro Leu Leu Phe Phe Pro Phe Phe Phe
 1 5 10 15
 Pro Ser Leu Ile Phe Phe Pro Phe Phe Ser Ser Pro Ser Pro Ser Phe
 20 25 30
 Gln Phe Leu Pro His Gln Glu Lys Ser Gln His Val Phe Pro Pro Asn
 35 40 45
 Ala *
 49

<210> 1571
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1571
 Met Tyr Leu Trp Val Val Arg Trp Lys Trp Cys Leu Gln Lys Leu Gly
 1 5 10 15
 Arg Arg Ile Leu Leu His Ser Leu His Asp Val Phe Ile Ala Asn Met
 20 25 30
 Asp Asp Lys Gly Leu Cys Tyr Arg Gly Leu Arg Ala Pro Ser Phe Leu
 35 40 45
 Leu *
 49

<210> 1572
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 1572
 Met Ser Ser Gly Arg Asn Phe Gly Phe Cys Phe Gln Trp Leu Pro Trp
 1 5 10 15
 Ala Leu Val Ala Thr Trp Ala Ser Val Thr Val Leu Met Ser Ser His
 20 25 30
 Ser Ser Ser Val Gly Ser Gly Leu Cys Pro Met Asp Phe Cys Ser Ser
 35 40 45
 Ser Arg Arg Leu Phe Ser Arg Phe Ser Ser Ile Ser Phe Leu Leu Ala
 50 55 60
 Ser Leu Leu Leu Ser Ser Ser Thr Lys Ser Val Ala Met Pro Thr *
 65 70 75 79

<210> 1573
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1573
 Met Ile Asp Ile Val Arg Phe Ala Gly Leu Pro Ser Leu Leu Leu His
 1 5 10 15
 Ala Leu Cys Leu Ile Ser Leu Thr Tyr Pro Ser Ser Phe Arg His Ser
 20 25 30
 Ser Tyr Leu Ile Ser Pro Cys Ala Ser Phe Trp Ile Leu Tyr Leu Phe
 35 40 45
 Arg Pro Val *
 50 51

<210> 1574
 <211> 200
 <212> PRT
 <213> Homo sapiens

<400> 1574
 Met Arg Leu Ser Leu Pro Leu Leu Leu Leu Leu Gly Ala Trp Ala
 1 5 10 15
 Ile Pro Gly Gly Leu Gly Val Met Ala Pro Leu Thr Ala Thr Ala Pro
 20 25 30
 Glu Val Asp Asp Glu Glu Met Tyr Ser Ala His Met Pro Ala His Leu
 35 40 45
 Arg Cys Asp Ala Cys Arg Ala Val Ala Tyr Gln Glu Cys Gly Pro Lys
 50 55 60
 Thr Leu Ala Lys Ala Glu Thr Lys Leu His Thr Ser Asn Ser Gly Gly
 65 70 75 80
 Arg Arg Asp Val Ser Glu Leu Val Tyr Thr Asp Val Leu Asp Arg Ser
 85 90 95
 Cys Ser Arg Asn Trp Gln Asp Tyr Gly Val Arg Glu Val Asp Gln Val

```

      100      105      110
Lys Arg Leu Thr Gly Pro Gly Leu Ser Glu Gly Pro Glu Pro Ser Ile
      115      120      125
Ser Val Met Val Thr Gly Gly Pro Trp His Thr Arg Leu Ser Arg Thr
      130      135      140
Cys Leu His Tyr Leu Gly Glu Phe Gly Glu Asp Gln Ile Tyr Glu Ala
      145      150      155      160
His Gln Gln Gly Arg Gly Ala Leu Glu Ala Leu Leu Cys Gly Gly Pro
      165      170      175
Pro Gly Gly Leu Leu Arg Glu Gly Val Ser His Lys Arg Arg Ala Leu
      180      185      190
Val Leu Asp Ser Thr Leu Leu *
      195      199

```

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<210> 1575
<211> 51
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(51)
<223> Xaa = any amino acid or nothing

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<400> 1575
Met Leu Leu Gly Phe Gly Asn Val Phe Ile Leu Leu Ile Leu Xaa Thr
 1      5      10      15
Ala Ile Leu Trp Leu Lys Gly Ser Gln Arg Val Pro Glu Glu Pro Gly
      20      25      30
Glu Gln Pro Ile Tyr Met Asn Phe Ser Glu Pro Leu Thr Lys Asp Met
      35      40      45
Ala Thr *
      50

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<210> 1576
<211> 124
<212> PRT
<213> Homo sapiens

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<400> 1576
Met Arg Ile Arg Leu Leu Cys Cys Val Ala Phe Ser Leu Leu Trp Ala
 1      5      10      15
Gly Pro Val Ile Ala Gly Ile Thr Gln Ala Pro Thr Ser Gln Ile Leu
      20      25      30
Ala Ala Gly Arg Arg Met Thr Leu Arg Cys Thr Gln Asp Met Arg His
      35      40      45
Asn Ala Met Tyr Trp Tyr Arg Gln Asp Leu Gly Leu Gly Leu Arg Leu
      50      55      60
Ile His Tyr Ser Asn Thr Ala Gly Thr Thr Gly Lys Gly Glu Val Pro
      65      70      75      80
Asp Gly Tyr Ser Val Ser Arg Ala Asn Thr Asp Asp Phe Pro Leu Thr
      85      90      95
Leu Ala Ser Ala Val Pro Ser Gln Thr Ser Val Tyr Phe Cys Ala Ser
      100      105      110

```


Ser Asp Gly Ala Ser Gly Ser Pro His Thr Gly Glu
 115 120 124

<210> 1577
 <211> 860
 <212> PRT
 <213> Homo sapiens

<400> 1577
 Met Ala Cys Arg Trp Ser Thr Lys Glu Ser Pro Arg Trp Arg Ser Ala
 1 5 10 15
 Leu Leu Leu Leu Phe Leu Ala Gly Val Tyr Gly Asn Gly Ala Leu Ala
 20 25 30
 Glu His Ser Glu Asn Val His Ile Ser Gly Val Ser Thr Ala Cys Gly
 35 40 45
 Glu Thr Pro Glu Gln Ile Arg Ala Pro Ser Gly Ile Ile Thr Ser Pro
 50 55 60
 Gly Trp Pro Ser Glu Tyr Pro Ala Lys Ile Asn Cys Ser Trp Phe Ile
 65 70 75 80
 Arg Ala Asn Pro Gly Glu Ile Ile Thr Ile Ser Phe Gln Asp Phe Asp
 85 90 95
 Ile Gln Gly Ser Arg Arg Cys Asn Leu Asp Trp Leu Thr Ile Glu Thr
 100 105 110
 Tyr Lys Asn Ile Glu Ser Tyr Arg Ala Cys Gly Ser Thr Ile Pro Pro
 115 120 125
 Pro Tyr Ile Ser Ser Gln Asp His Ile Trp Ile Arg Phe His Ser Asp
 130 135 140
 Asp Asn Ile Ser Arg Lys Gly Phe Arg Leu Ala Tyr Phe Ser Gly Lys
 145 150 155 160
 Ser Glu Glu Pro Asn Cys Ala Cys Asp Gln Phe Arg Cys Gly Asn Gly
 165 170 175
 Lys Cys Ile Pro Glu Ala Trp Lys Cys Asn Asn Met Asp Glu Cys Gly
 180 185 190
 Asp Arg Ser Asp Glu Glu Ile Cys Ala Lys Glu Ala Asn Pro Pro Thr
 195 200 205
 Ala Ala Ala Phe Gln Pro Cys Ala Tyr Asn Gln Phe Gln Cys Leu Ser
 210 215 220
 Arg Phe Thr Lys Val Tyr Thr Cys Leu Pro Glu Ser Leu Lys Cys Asp
 225 230 235 240
 Gly Asn Ile Asp Cys Leu Asp Leu Gly Asp Glu Ile Asp Cys Asp Val
 245 250 255
 Pro Thr Cys Gly Gln Trp Leu Lys Tyr Phe Tyr Gly Thr Phe Asn Ser
 260 265 270
 Pro Asn Tyr Pro Asp Phe Tyr Pro Pro Gly Ser Asn Cys Thr Trp Leu
 275 280 285
 Ile Asp Thr Gly Asp His Arg Lys Val Ile Leu Arg Phe Thr Asp Phe
 290 295 300
 Lys Leu Asp Gly Thr Gly Tyr Gly Asp Tyr Val Lys Ile Tyr Asp Gly
 305 310 315 320
 Leu Glu Glu Asn Pro His Lys Leu Leu Arg Val Leu Thr Ala Phe Asp
 325 330 335
 Ser His Ala Pro Leu Thr Val Val Ser Ser Ser Gly Gln Ile Arg Val
 340 345 350
 His Phe Cys Ala Asp Lys Val Asn Ala Ala Arg Gly Phe Asn Ala Thr
 355 360 365
 Tyr Gln Val Asp Gly Phe Cys Leu Pro Trp Glu Ile Pro Cys Gly Gly

370	375	380
Asn Trp Gly Cys Tyr Thr Glu Gln Gln Arg Cys Asp Gly Tyr Trp His		
385	390	395
Cys Pro Asn Gly Arg Asp Glu Thr Asn Cys Thr Met Cys Gln Lys Glu		400
	405	410
Glu Phe Pro Cys Ser Arg Asn Gly Val Cys Tyr Pro Arg Ser Asp Arg		415
	420	425
Cys Asn Tyr Gln Asn His Cys Pro Asn Gly Ser Asp Glu Lys Asn Cys		430
	435	440
Phe Phe Cys Gln Pro Gly Asn Phe His Cys Lys Asn Asn Arg Cys Val		445
	450	455
Phe Glu Ser Trp Val Cys Asp Ser Gln Asp Asp Cys Gly Asp Gly Ser		460
465	470	475
Asp Glu Glu Asn Cys Pro Val Ile Val Pro Thr Arg Val Ile Thr Ala		480
	485	490
Ala Val Ile Gly Ser Leu Ile Cys Gly Leu Leu Leu Val Ile Ala Leu		495
	500	505
Gly Cys Thr Cys Lys Leu Tyr Ser Leu Arg Met Phe Glu Arg Arg Ser		510
	515	520
Phe Glu Thr Gln Leu Ser Arg Val Glu Ala Glu Leu Arg Arg Glu		525
	530	535
Ala Pro Pro Ser Tyr Gly Gln Leu Ile Ala Gln Gly Leu Ile Pro Pro		540
545	550	555
Val Glu Asp Phe Pro Val Cys Ser Pro Asn Gln Ala Ser Val Leu Glu		560
	565	570
Asn Leu Arg Leu Ala Val Arg Ser Gln Leu Gly Phe Thr Ser Val Arg		575
	580	585
Leu Pro Met Ala Gly Arg Ser Ser Asn Ile Trp Asn Arg Ile Phe Asn		590
	595	600
Phe Ala Arg Ser Arg His Ser Gly Ser Leu Ala Leu Val Ser Ala Asp		605
	610	615
Gly Asp Glu Val Val Pro Ser Gln Ser Thr Ser Arg Glu Pro Glu Arg		620
625	630	635
Asn His Thr His Arg Ser Leu Phe Ser Val Glu Ser Asp Asp Thr Asp		640
	645	650
Thr Glu Asn Glu Arg Arg Asp Met Ala Gly Ala Ser Gly Gly Val Ala		655
	660	665
Ala Pro Leu Pro Gln Lys Val Pro Pro Thr Thr Ala Val Glu Ala Thr		670
	675	680
Val Gly Ala Cys Ala Ser Ser Ser Thr Gln Ser Thr Arg Gly Gly His		685
	690	695
Ala Asp Asn Gly Arg Asp Val Thr Ser Val Glu Pro Pro Ser Val Ser		700
705	710	715
Pro Ala Arg His Gln Leu Thr Ser Ala Leu Ser Arg Met Thr Gln Gly		720
	725	730
Leu Arg Trp Val Arg Phe Thr Leu Gly Arg Ser Ser Ser Leu Ser Gln		735
	740	745
Asn Gln Ser Pro Leu Arg Gln Leu Asp Asn Gly Val Ser Gly Arg Glu		750
	755	760
Asp Asp Asp Asp Val Glu Met Leu Ile Pro Ile Ser Asp Gly Ser Ser		765
	770	775
Asp Phe Asp Val Asn Asp Cys Ser Arg Pro Leu Leu Asp Leu Ala Ser		780
785	790	795
Asp Gln Gly Gln Gly Leu Arg Gln Pro Tyr Asn Ala Thr Asn Pro Gly		800
	805	810
Val Arg Pro Ser Asn Arg Asp Gly Pro Cys Glu Arg Cys Gly Ile Val		815
	820	825
His Thr Ala Gln Ile Pro Asp Thr Cys Leu Glu Val Thr Leu Lys Asn		830
	835	840
		845

Glu Thr Ser Asp Asp Glu Ala Leu Leu Leu Cys *
 850 855 859

<210> 1578
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1578
 Met Tyr Gly Met Leu Glu Trp Pro Ile Ser Met Tyr Phe Val Ala Phe
 1 5 10 15
 Leu His Cys Phe Leu Cys Ser Gly Gly Asn Leu Gly Asp Ser Phe Gln
 20 25 30
 Ala Leu Pro Glu Leu Cys Ala Asn Cys Ser Ser Ser Pro Arg Val Leu
 35 40 45
 Cys Cys Val Val Met Ser Pro Leu Pro *
 50 55 57

<210> 1579
 <211> 572
 <212> PRT
 <213> Homo sapiens

<400> 1579
 Met Arg Arg Arg Ser Arg Met Leu Leu Cys Phe Ala Phe Leu Trp Val
 1 5 10 15
 Leu Gly Ile Ala Tyr Tyr Met Tyr Ser Gly Gly Gly Ser Ala Leu Ala
 20 25 30
 Gly Gly Ala Gly Gly Gly Ala Gly Arg Lys Glu Asp Trp Asn Glu Ile
 35 40 45
 Asp Pro Ile Lys Lys Lys Asp Leu His His Ser Asn Gly Glu Glu Lys
 50 55 60
 Ala Gln Ser Met Glu Thr Leu Pro Pro Gly Lys Val Arg Trp Pro Asp
 65 70 75 80
 Phe Asn Gln Glu Ala Tyr Val Gly Gly Thr Met Val Arg Ser Gly Gln
 85 90 95
 Asp Pro Tyr Ala Arg Asn Lys Phe Asn Gln Val Glu Ser Asp Lys Leu
 100 105 110
 Arg Met Asp Arg Ala Ile Pro Asp Thr Arg His Asp Gln Cys Gln Arg
 115 120 125
 Lys Gln Trp Arg Val Asp Leu Pro Ala Thr Ser Val Val Ile Thr Phe
 130 135 140
 His Asn Glu Ala Arg Ser Ala Leu Leu Arg Thr Val Val Ser Val Leu
 145 150 155 160
 Lys Lys Ser Pro Pro His Leu Ile Lys Glu Ile Ile Leu Val Asp Asp
 165 170 175
 Tyr Ser Asn Asp Pro Glu Asp Gly Ala Leu Leu Gly Lys Ile Glu Lys
 180 185 190
 Val Arg Val Leu Arg Asn Asp Arg Arg Glu Gly Leu Met Arg Ser Arg
 195 200 205
 Val Arg Gly Ala Asp Ala Ala Gln Ala Lys Val Leu Thr Phe Leu Asp
 210 215 220
 Ser His Cys Glu Cys Asn Glu His Trp Leu Glu Pro Leu Leu Glu Arg

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225          230          235          240
Val Ala Glu Asp Arg Thr Arg Val Val Ser Pro Ile Ile Asp Val Ile
          245          250          255
Asn Met Asp Asn Phe Gln Tyr Val Gly Ala Ser Ala Asp Leu Lys Gly
          260          265          270
Gly Phe Asp Trp Asn Leu Val Phe Lys Trp Asp Tyr Met Thr Pro Glu
          275          280          285
Gln Arg Arg Ser Arg Gln Gly Asn Pro Val Ala Pro Ile Lys Thr Pro
          290          295          300
Met Ile Ala Gly Gly Leu Phe Val Met Asp Lys Phe Tyr Phe Glu Glu
305          310          315          320
Leu Gly Lys Tyr Asp Met Met Asp Val Trp Gly Gly Glu Asn Leu
          325          330          335
Glu Ile Ser Phe Arg Val Trp Gln Cys Gly Gly Ser Leu Glu Ile Ile
          340          345          350
Pro Cys Ser Arg Val Gly His Val Phe Arg Lys Gln His Pro Tyr Thr
          355          360          365
Phe Pro Gly Gly Ser Gly Thr Val Phe Ala Arg Asn Thr Arg Arg Ala
          370          375          380
Ala Glu Val Trp Met Asp Glu Tyr Lys Asn Phe Tyr Tyr Ala Ala Val
385          390          395          400
Pro Ser Ala Arg Asn Val Pro Tyr Gly Asn Ile Gln Ser Arg Leu Glu
          405          410          415
Leu Arg Lys Lys Leu Ser Cys Lys Pro Phe Lys Trp Tyr Leu Glu Asn
          420          425          430
Val Tyr Pro Glu Leu Arg Val Pro Asp His Gln Asp Ile Ala Phe Gly
          435          440          445
Ala Leu Gln Gln Gly Thr Asn Cys Leu Asp Thr Leu Gly His Phe Ala
          450          455          460
Asp Gly Val Val Gly Val Tyr Glu Cys His Asn Ala Gly Gly Asn Gln
465          470          475          480
Glu Trp Ala Leu Thr Lys Glu Lys Ser Val Lys His Met Asp Leu Cys
          485          490          495
Leu Thr Val Val Asp Arg Ala Pro Gly Ser Leu Ile Lys Leu Gln Gly
          500          505          510
Cys Arg Glu Asn Asp Ser Arg Gln Lys Trp Glu Gln Ile Glu Gly Asn
          515          520          525
Ser Lys Leu Arg His Val Gly Ser Asn Leu Cys Leu Asp Ser Arg Thr
          530          535          540
Ala Lys Ser Gly Gly Leu Ser Val Glu Val Cys Gly Pro Ala Leu Ser
545          550          555          560
Gln Gln Trp Lys Phe Thr Leu Asn Leu Gln Gln *
          565          570 571

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<210> 1580
<211> 77
<212> PRT
<213> Homo sapiens

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<400> 1580
Met Glu Arg Pro Leu Cys Ser His Leu Cys Ser Cys Leu Ala Met Leu
 1          5          10          15
Ala Leu Leu Ser Pro Leu Ser Leu Ala Gln Tyr Asp Ser Trp Pro His
          20          25          30
Tyr Pro Glu Tyr Phe Gln Gln Pro Ala Pro Glu Tyr His Gln Pro Gln
          35          40          45

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Ala Pro Ala Asn Val Ala Lys Ile Gln Leu Arg Leu Ala Gly Gln Lys
 50 55 60
 Arg Lys His Ser Glu Gly Pro Gly Gly Gly Val Leu *
 65 70 75 76

<210> 1581

<211> 494

<212> PRT

<213> Homo sapiens

<400> 1581

Met Gly Ser Leu Gln Pro Leu Ala Thr Leu Tyr Leu Leu Gly Met Leu
 1 5 10 15
 Val Ala Ser Cys Leu Gly Arg Leu Ser Trp Tyr Asp Pro Asp Phe Gln
 20 25 30
 Ala Arg Leu Thr Arg Ser Asn Ser Lys Cys Gln Gly Gln Leu Glu Val
 35 40 45
 Tyr Leu Lys Asp Gly Trp His Met Val Cys Ser Gln Ser Trp Gly Arg
 50 55 60
 Ser Ser Lys Gln Trp Glu Asp Pro Ser Gln Ala Ser Lys Val Cys Gln
 65 70 75 80
 Arg Leu Asn Cys Gly Val Pro Leu Ser Leu Gly Pro Phe Leu Val Thr
 85 90 95
 Tyr Thr Pro Gln Ser Ser Ile Ile Cys Tyr Gly Gln Leu Gly Ser Phe
 100 105 110
 Ser Asn Cys Ser His Ser Arg Asn Asp Met Cys His Ser Leu Gly Leu
 115 120 125
 Thr Cys Leu Glu Pro Gln Lys Thr Thr Pro Pro Thr Thr Arg Pro Pro
 130 135 140
 Pro Thr Thr Thr Pro Glu Pro Thr Ala Pro Pro Arg Leu Gln Leu Val
 145 150 155 160
 Ala Gln Ser Gly Gly Gln His Cys Ala Gly Val Val Glu Phe Tyr Ser
 165 170 175
 Gly Ser Leu Gly Gly Thr Ile Ser Tyr Glu Ala Gln Asp Lys Thr Gln
 180 185 190
 Asp Leu Glu Asn Phe Leu Cys Asn Asn Leu Gln Cys Gly Ser Phe Leu
 195 200 205
 Lys His Leu Pro Glu Thr Glu Ala Gly Arg Ala Gln Asp Pro Gly Glu
 210 215 220
 Pro Arg Glu His Gln Pro Leu Pro Ile Gln Trp Lys Ile Gln Asn Ser
 225 230 235 240
 Ser Cys Thr Ser Leu Glu His Cys Phe Arg Lys Ile Lys Pro Gln Lys
 245 250 255
 Ser Gly Arg Val Leu Ala Leu Leu Cys Ser Gly Phe Gln Pro Lys Val
 260 265 270
 Gln Ser Arg Leu Val Gly Gly Ser Ser Ile Cys Glu Gly Thr Val Glu
 275 280 285
 Val Arg Gln Gly Ala Gln Trp Ala Ala Leu Cys Asp Ser Ser Ser Ala
 290 295 300
 Arg Ser Ser Leu Arg Trp Glu Glu Val Cys Arg Glu Gln Gln Cys Gly
 305 310 315 320
 Ser Val Asn Ser Tyr Arg Val Leu Asp Ala Gly Asp Pro Thr Ser Arg
 325 330 335
 Gly Leu Phe Cys Pro His Gln Lys Leu Ser Gln Cys His Glu Leu Trp
 340 345 350
 Glu Arg Asn Ser Tyr Cys Lys Lys Val Phe Val Thr Cys Gln Asp Pro

```

      355      360      365
Asn Pro Ala Gly Leu Ala Ala Gly Thr Val Ala Ser Ile Ile Leu Ala
370      375      380
Leu Val Leu Leu Val Val Leu Leu Val Val Cys Gly Pro Leu Ala Tyr
385      390      395      400
Lys Lys Leu Val Lys Lys Phe Arg Gln Lys Lys Gln Arg Gln Trp Ile
      405      410      415
Gly Pro Thr Gly Met Asn Gln Asn Met Ser Phe His Arg Asn His Thr
      420      425      430
Ala Thr Val Arg Ser His Ala Glu Asn Pro Thr Ala Ser His Val Asp
      435      440      445
Asn Glu Tyr Ser Gln Pro Pro Arg Asn Ser Arg Leu Ser Ala Tyr Pro
450      455      460
Ala Leu Glu Gly Ala Leu His Arg Ser Ser Met Gln Pro Asp Asn Ser
465      470      475      480
Ser Asp Ser Asp Tyr Asp Leu His Gly Ala Gln Arg Leu *
      485      490      493

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<210> 1582
 <211> 329
 <212> PRT
 <213> Homo sapiens

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      <400> 1582
Met Gln Gly Leu Cys Ile Ser Val Ala Val Phe Leu His Tyr Phe Leu
1      5      10      15
Leu Val Ser Phe Thr Trp Met Gly Leu Glu Ala Phe His Met Tyr Leu
      20      25      30
Ala Leu Val Lys Val Phe Asn Thr Tyr Ile Arg Lys Tyr Ile Leu Lys
      35      40      45
Phe Cys Ile Val Gly Trp Gly Val Pro Ala Val Val Val Thr Ile Ile
      50      55      60
Leu Thr Ile Ser Pro Asp Asn Tyr Gly Leu Gly Ser Tyr Gly Lys Phe
      65      70      75      80
Pro Asn Gly Ser Pro Asp Asp Phe Cys Trp Ile Asn Asn Asn Ala Val
      85      90      95
Phe Tyr Ile Thr Val Val Gly Tyr Phe Cys Val Ile Phe Leu Leu Asn
      100      105      110
Val Ser Met Phe Ile Val Val Leu Val Gln Leu Cys Arg Ile Lys Lys
      115      120      125
Lys Lys Gln Leu Gly Ala Gln Arg Lys Thr Ser Ile Gln Asp Leu Arg
      130      135      140
Ser Ile Ala Gly Leu Thr Phe Leu Leu Gly Ile Thr Trp Gly Phe Ala
145      150      155      160
Phe Phe Ala Trp Gly Pro Val Asn Val Thr Phe Met Tyr Leu Phe Ala
      165      170      175
Ile Phe Asn Thr Leu Gln Gly Phe Phe Ile Phe Ile Phe Tyr Cys Val
      180      185      190
Ala Lys Glu Asn Val Arg Lys Gln Trp Arg Arg Tyr Leu Cys Cys Gly
      195      200      205
Lys Leu Arg Leu Ala Glu Asn Ser Asp Trp Ser Lys Thr Ala Thr Asn
      210      215      220
Gly Leu Lys Lys Gln Thr Val Asn Gln Gly Val Ser Ser Ser Ser Asn
225      230      235      240
Ser Leu Gln Ser Ser Ser Asn Ser Thr Asn Ser Thr Thr Leu Leu Val
      245      250      255

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Asn Asn Asp Cys Ser Val His Ala Ser Gly Asn Gly Asn Ala Ser Thr
 260 265 270
 Glu Arg Asn Gly Val Ser Phe Ser Val Gln Asn Gly Asp Val Cys Leu
 275 280 285
 His Asp Phe Thr Gly Lys Gln His Met Phe Asn Glu Lys Glu Asp Ser
 290 295 300
 Cys Asn Gly Lys Gly Arg Met Ala Leu Arg Arg Thr Ser Lys Arg Gly
 305 310 315 320
 Ser Leu His Phe Ile Glu Gln Met *
 325 328

<210> 1583
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1583
 Met Gly Met Gly Arg Leu Leu Pro Met Ala Trp Val Leu Ala Gly Ile
 1 5 10 15
 Pro Thr Gly Ala Gln Gln Ser Trp Arg Arg Pro Trp Ser Gly Ser Ala
 20 25 30
 Pro Arg Cys Ala Ser Cys Gly Ser Ala Trp Arg Cys Cys Ala Val Arg
 35 40 45 48
 *

<210> 1584
 <211> 671
 <212> PRT
 <213> Homo sapiens

<400> 1584
 Met Ile Ala Ser Cys Leu Cys Tyr Leu Leu Leu Pro Ala Thr Arg Leu
 1 5 10 15
 Phe Arg Ala Leu Ser Asp Ala Phe Phe Thr Cys Arg Lys Asn Val Leu
 20 25 30
 Leu Ala Asn Ser Ser Ser Pro Gln Val Glu Gly Asp Phe Ala Met Ala
 35 40 45
 Pro Arg Gly Pro Glu Gln Glu Glu Cys Glu Gly Leu Leu Gln Gln Trp
 50 55 60
 Arg Glu Glu Gly Leu Ser Gln Val Leu Ser Thr Ala Ser Glu Gly Pro
 65 70 75 80
 Leu Ile Asp Lys Gly Leu Ala Gln Ser Ser Leu Ala Leu Leu Met Asp
 85 90 95
 Asn Pro Gly Glu Glu Asn Ala Ala Ser Glu Asp Arg Trp Ser Ser Arg
 100 105 110
 Gln Leu Ser Asp Leu Arg Ala Ala Glu Asn Leu Asp Glu Pro Phe Pro
 115 120 125
 Glu Met Leu Gly Glu Glu Pro Leu Leu Glu Val Glu Gly Val Glu Gly
 130 135 140
 Ser Met Trp Ala Ala Ile Pro Met Gln Ser Glu Pro Gln Tyr Ala Asp
 145 150 155 160
 Cys Ala Ala Leu Pro Val Gly Ala Leu Ala Thr Glu Gln Trp Glu Glu

				165						170						175
Asp	Pro	Ala	Val	Leu	Ala	Trp	Ser	Ile	Ala	Pro	Glu	Pro	Val	Pro	Gln	
				180												
Glu	Glu	Ala	Ser	Ile	Trp	Pro	Phe	Glu	Gly	Leu	Gly	Gln	Leu	Gln	Pro	
				195												
Pro	Ala	Val	Glu	Ile	Pro	Tyr	His	Glu	Ile	Leu	Trp	Arg	Glu	Trp	Glu	
				210												
Asp	Phe	Ser	Thr	Gln	Pro	Asp	Ala	Gln	Gly	Leu	Lys	Ala	Gly	Asp	Gly	
225					230						235				240	
Pro	Gln	Phe	Gln	Phe	Thr	Leu	Met	Ser	Tyr	Asn	Ile	Leu	Ala	Gln	Asp	
				245											255	
Leu	Met	Gln	Gln	Ser	Ser	Glu	Leu	Tyr	Leu	His	Cys	His	Pro	Asp	Ile	
				260											270	
Leu	Asn	Trp	Asn	Tyr	Arg	Phe	Val	Asn	Leu	Met	Gln	Glu	Phe	Gln	His	
				275											285	
Trp	Asp	Pro	Asp	Ile	Leu	Cys	Leu	Gln	Glu	Val	Gln	Glu	Asp	His	Tyr	
				290											300	
Trp	Glu	Gln	Leu	Glu	Pro	Ser	Leu	Arg	Met	Met	Gly	Phe	Thr	Cys	Phe	
305					310										320	
Tyr	Lys	Arg	Arg	Thr	Gly	Cys	Lys	Thr	Asp	Gly	Cys	Ala	Val	Cys	Tyr	
				325											335	
Lys	Pro	Thr	Arg	Phe	Arg	Leu	Leu	Cys	Ala	Ser	Pro	Val	Glu	Tyr	Phe	
				340											350	
Arg	Pro	Gly	Leu	Glu	Leu	Leu	Asn	Arg	Asp	Asn	Val	Gly	Leu	Val	Leu	
				355											365	
Leu	Leu	Gln	Pro	Leu	Val	Pro	Glu	Gly	Leu	Gly	Gln	Val	Ser	Val	Ala	
				370											380	
Pro	Leu	Cys	Val	Ala	Asn	Thr	His	Ile	Leu	Tyr	Asn	Pro	Arg	Arg	Gly	
385					390										400	
Asp	Val	Lys	Leu	Ala	Gln	Met	Ala	Ile	Leu	Leu	Ala	Glu	Val	Asp	Lys	
				405											415	
Val	Ala	Arg	Leu	Ser	Asp	Gly	Ser	His	Cys	Pro	Ile	Ile	Leu	Cys	Gly	
				420											430	
Asp	Leu	Asn	Ser	Val	Pro	Asp	Ser	Pro	Leu	Tyr	Asn	Phe	Ile	Arg	Asp	
				435											445	
Gly	Glu	Leu	Gln	Tyr	His	Gly	Met	Pro	Ala	Trp	Lys	Val	Ser	Gly	Gln	
				450											460	
Glu	Asp	Phe	Ser	His	Gln	Leu	Tyr	Gln	Arg	Lys	Leu	Gln	Ala	Pro	Leu	
465					470										480	
Trp	Pro	Ser	Ser	Leu	Gly	Ile	Thr	Asp	Cys	Cys	Gln	Tyr	Val	Thr	Ser	
				485											495	
Cys	His	Pro	Lys	Arg	Ser	Glu	Arg	Arg	Lys	Tyr	Gly	Arg	Asp	Phe	Leu	
				500											510	
Leu	Arg	Phe	Arg	Phe	Cys	Ser	Ile	Ala	Cys	Gln	Arg	Pro	Val	Gly	Leu	
				515											525	
Val	Leu	Met	Glu	Gly	Val	Thr	Asp	Thr	Lys	Pro	Glu	Arg	Pro	Ala	Gly	
				530											540	
Trp	Ala	Glu	Ser	Val	Leu	Glu	Glu	Asp	Ala	Ser	Glu	Leu	Glu	Pro	Ala	
545					550										560	
Phe	Ser	Arg	Thr	Val	Gly	Thr	Ile	Gln	His	Cys	Leu	His	Leu	Thr	Ser	
				565											575	
Val	Tyr	Thr	His	Phe	Leu	Pro	Gln	Arg	Gly	Arg	Pro	Glu	Val	Thr	Thr	
				580											590	
Met	Pro	Leu	Gly	Leu	Gly	Met	Thr	Val	Asp	Tyr	Ile	Phe	Phe	Ser	Ala	
				595											605	
Glu	Ser	Cys	Glu	Asn	Gly	Asn	Arg	Thr	Asp	His	Arg	Leu	Tyr	Arg	Asp	
				610											620	
Gly	Thr	Leu	Lys	Leu	Leu	Gly	Arg	Leu	Ser	Leu	Leu	Ser	Glu	Glu	Ile	
625					630										640	

Leu Trp Ala Ala Asn Gly Leu Pro Asn Pro Phe Cys Ser Ser Asp His
 645 650 655
 Leu Cys Leu Leu Ala Ser Leu Gly Met Glu Val Thr Ala Pro *
 660 665 670

<210> 1585
 <211> 318
 <212> PRT
 <213> Homo sapiens

<400> 1585
 Met Met Cys Leu Lys Ile Leu Arg Ile Ser Leu Ala Ile Leu Ala Gly
 1 5 10 15
 Trp Ala Leu Cys Ser Ala Asn Ser Glu Leu Gly Trp Thr Arg Lys Lys
 20 25 30
 Ser Leu Val Glu Arg Glu His Leu Asn Gln Val Leu Leu Glu Gly Glu
 35 40 45
 Arg Cys Trp Leu Gly Ala Lys Val Arg Arg Pro Arg Ala Ser Pro Gln
 50 55 60
 His His Leu Phe Gly Val Tyr Pro Ser Arg Ala Gly Asn Tyr Leu Arg
 65 70 75 80
 Pro Tyr Pro Val Gly Glu Gln Glu Ile His His Thr Gly Arg Ser Lys
 85 90 95
 Pro Asp Thr Glu Gly Asn Ala Val Ser Leu Val Pro Pro Asp Leu Thr
 100 105 110
 Glu Asn Pro Ala Gly Leu Arg Gly Ala Val Glu Glu Pro Ala Ala Pro
 115 120 125
 Trp Val Gly Asp Ser Pro Ile Gly Gln Ser Glu Leu Leu Gly Asp Asp
 130 135 140
 Asp Ala Tyr Leu Gly Asn Gln Arg Ser Lys Glu Ser Leu Gly Glu Ala
 145 150 155 160
 Gly Ile Gln Lys Gly Ser Ala Met Ala Ala Thr Thr Thr Thr Ala Ile
 165 170 175
 Phe Thr Thr Leu Asn Glu Pro Lys Pro Glu Thr Gln Arg Arg Gly Trp
 180 185 190
 Ala Lys Ser Arg Gln Arg Arg Gln Val Trp Lys Arg Arg Ala Glu Asp
 195 200 205
 Gly Gln Gly Asp Ser Gly Ile Ser Ser His Phe Gln Pro Trp Pro Lys
 210 215 220
 His Ser Leu Lys His Arg Val Lys Lys Ser Pro Pro Glu Glu Ser Asn
 225 230 235 240
 Gln Asn Gly Gly Glu Gly Ser Tyr Arg Glu Ala Glu Thr Phe Asn Ser
 245 250 255
 Gln Val Gly Leu Pro Ile Leu Tyr Phe Ser Gly Arg Arg Glu Arg Leu
 260 265 270
 Leu Leu Arg Pro Glu Val Leu Ala Glu Ile Pro Arg Glu Ala Phe Thr
 275 280 285
 Val Glu Ala Trp Val Lys Pro Glu Gly Gly Gln Asn Asn Pro Ala Ile
 290 295 300
 Ile Ala Gly Asn Thr Leu Leu Leu Gly Phe Leu Lys Ser *
 305 310 315 317

<210> 1586
 <211> 80

<212> PRT

<213> Homo sapiens

<400> 1586

```

Met Ile Ala Leu Thr Gln Leu Leu Thr Phe Ile Leu Ser Cys Asn Ser
 1           5           10           15
Ser Leu Leu His Ile Phe Pro Phe Cys Glu Gln Val Leu Val Glu Asn
           20           25           30
Gly Thr Lys Ala Gly His Ser Leu Leu Met Asp Ala Arg Asp Leu Val
           35           40           45
Leu Lys Gly Lys Glu Lys Ser Pro Leu Asp Pro Arg Pro Gly Phe Val
           50           55           60
Phe Ala Pro Val Ser Ile Thr Ser Ala Cys Pro Thr Thr Arg Ile *
 65           70           75           79

```

<210> 1587

<211> 316

<212> PRT

<213> Homo sapiens

<400> 1587

```

Met Phe Phe Gly Ser Ala Ala Leu Gly Thr Leu Thr Gly Leu Ile Ser
 1           5           10           15
Ala Leu Val Leu Lys His Ile Asp Leu Arg Lys Thr Pro Ser Leu Glu
           20           25           30
Phe Gly Met Met Ile Ile Phe Ala Tyr Leu Pro Tyr Gly Leu Ala Glu
           35           40           45
Gly Ile Ser Leu Ser Gly Ile Met Ala Ile Leu Phe Ser Gly Ile Val
           50           55           60
Met Ser His Tyr Thr His His Asn Leu Ser Pro Val Thr Gln Ile Leu
 65           70           75           80
Met Gln Gln Thr Leu Arg Thr Val Ala Phe Leu Cys Glu Thr Cys Val
           85           90           95
Phe Ala Phe Leu Gly Leu Ser Ile Phe Ser Phe Pro His Lys Phe Glu
           100          105          110
Ile Ser Phe Val Ile Trp Cys Ile Val Leu Val Leu Phe Gly Arg Ala
           115          120          125
Val Asn Ile Phe Pro Leu Ser Tyr Leu Leu Asn Phe Phe Arg Asp His
 130          135          140
Lys Ile Thr Pro Lys Met Met Phe Ile Met Trp Phe Ser Gly Leu Arg
 145          150          155          160
Gly Ala Ile Pro Tyr Ala Leu Ser Leu His Leu Asp Leu Glu Pro Met
           165          170          175
Glu Lys Arg Gln Leu Ile Gly Thr Thr Thr Ile Val Ile Val Leu Phe
           180          185          190
Thr Ile Leu Leu Leu Gly Gly Ser Thr Met Pro Leu Ile Arg Leu Met
           195          200          205
Asp Ile Glu Asp Ala Lys Ala His Arg Arg Asn Lys Lys Asp Val Asn
 210          215          220
Leu Ser Lys Thr Glu Lys Met Gly Asn Thr Val Glu Ser Glu His Leu
 225          230          235          240
Ser Glu Leu Thr Glu Glu Tyr Glu Ala His Tyr Ile Arg Arg Gln
           245          250          255
Asp Leu Lys Gly Phe Val Trp Leu Asp Ala Lys Tyr Leu Asn Pro Phe
 260          265          270

```

```

Phe Thr Arg Arg Leu Thr Gln Glu Asp Leu His His Gly Arg Ile Gln
      275                280                285
Met Lys Thr Leu Thr Asn Lys Trp Tyr Glu Glu Val Arg Gln Gly Pro
      290                295                300
Ser Gly Ser Glu Asp Asp Glu Gln Glu Leu Leu *
      305                310                315

```

```

<210> 1588
<211> 53
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(53)
<223> Xaa = any amino acid or nothing

```

```

<400> 1588
Met Cys Ser Leu Met Phe Gly Ser Ser Val Phe Val Cys Phe Pro Pro
  1          5          10          15
Cys Val Pro Leu Pro Ala Pro His Ser Gly Gly Pro Pro His Arg Ala
      20          25          30
Gly Arg Ser Val Phe Ser Ala Met Lys Leu Gly Lys Xaa Arg Ser His
      35          40          45
Lys Glu Glu Pro Gln
      50          53

```

```

<210> 1589
<211> 437
<212> PRT
<213> Homo sapiens

```

```

<400> 1589
Met Leu Lys Val Ser Ala Val Leu Cys Val Cys Ala Ala Ala Trp Cys
  1          5          10          15
Ser Gln Ser Leu Ala Ala Ala Ala Val Ala Ala Ala Gly Gly Arg
      20          25          30
Ser Asp Gly Gly Asn Phe Leu Asp Asp Lys Gln Trp Leu Thr Thr Ile
      35          40          45
Ser Gln Tyr Asp Lys Glu Val Gly Gln Trp Asn Lys Phe Arg Asp Glu
      50          55          60
Val Glu Asp Asp Tyr Phe Arg Thr Trp Ser Pro Gly Lys Pro Phe Asp
      65          70          75          80
Gln Ala Leu Asp Pro Ala Lys Asp Pro Cys Leu Lys Met Lys Cys Ser
      85          90          95
Arg His Lys Val Cys Ile Ala Gln Asp Ser Gln Thr Ala Val Cys Ile
      100         105         110
Ser His Arg Arg Leu Thr His Arg Met Lys Glu Ala Gly Val Asp His
      115         120         125
Arg Gln Trp Arg Gly Pro Ile Leu Ser Thr Cys Lys Gln Cys Pro Val
      130         135         140
Val Tyr Pro Ser Pro Val Cys Gly Ser Asp Gly His Thr Tyr Ser Phe
      145         150         155         160
Gln Cys Lys Leu Glu Tyr Gln Ala Cys Val Leu Gly Lys Gln Ile Ser

```

```

165      170      175
Val Lys Cys Glu Gly His Cys Pro Cys Pro Ser Asp Lys Pro Thr Ser
180      185      190
Thr Ser Arg Asn Val Lys Arg Ala Cys Ser Asp Leu Glu Phe Arg Glu
195      200      205
Val Ala Asn Arg Leu Arg Asp Trp Phe Lys Ala Leu His Glu Ser Gly
210      215      220
Ser Gln Asn Lys Lys Thr Lys Thr Leu Leu Arg Pro Glu Arg Ser Arg
225      230      235      240
Phe Asp Thr Ser Ile Leu Pro Ile Cys Lys Asp Ser Leu Gly Trp Met
245      250      255
Phe Asn Arg Leu Asp Thr Asn Tyr Asp Leu Leu Leu Asp Gln Ser Glu
260      265      270
Leu Arg Ser Ile Tyr Leu Asp Lys Asn Glu Gln Cys Thr Lys Ala Phe
275      280      285
Phe Asn Ser Cys Asp Thr Tyr Lys Asp Ser Leu Ile Ser Asn Asn Glu
290      295      300
Trp Cys Tyr Cys Phe Gln Arg Gln Gln Asp Pro Pro Cys Gln Thr Glu
305      310      315      320
Leu Ser Asn Ile Gln Lys Arg Gln Gly Val Lys Lys Leu Leu Gly Gln
325      330      335
Tyr Ile Pro Leu Cys Asp Glu Asp Gly Tyr Tyr Lys Pro Thr Gln Cys
340      345      350
His Gly Ser Val Gly Gln Cys Trp Cys Val Asp Arg Tyr Gly Asn Glu
355      360      365
Val Met Gly Ser Arg Ile Asn Gly Val Ala Asp Cys Ala Ile Asp Phe
370      375      380
Glu Ile Ser Gly Asp Phe Ala Ser Gly Asp Phe His Glu Trp Thr Asp
385      390      395      400
Asp Glu Asp Asp Glu Asp Asp Ile Met Asn Asp Glu Asp Glu Ile Glu
405      410      415
Asp Asp Asp Glu Asp Glu Gly Asp Asp Asp Asp Gly Gly Asp Asp His
420      425      430
Asp Val Tyr Ile *
435 436

```

```

<210> 1590
<211> 49
<212> PRT
<213> Homo sapiens

```

```

<400> 1590
Met Phe Gln Ile Tyr Phe Ser Phe Cys Gln Leu Cys Phe Ile Trp Ser
1      5      10      15
Cys Phe Phe Asn Ser Arg Glu Thr Phe Asn Glu Ile Tyr Lys Phe Phe
20      25      30
Leu Lys Ser Val Met Val Arg Lys Ile Phe Glu Cys His Lys Met Ser
35      40      45      48
*

```

```

<210> 1591
<211> 73
<212> PRT

```

<213> Homo sapiens

<400> 1591

```

Met Ser Leu Asn Val Leu Leu Ala Leu Phe Cys Leu Leu Leu Ala Lys
 1           5           10           15
Glu Arg Thr Thr Thr Lys Arg Cys Ile Ser Cys Leu Pro Phe Ser Thr
          20           25           30
Phe Phe Ser Phe Gly Pro Leu Gln Lys Val Thr Asp Pro Ser Ser Trp
          35           40           45
Ala Leu Ala Phe Ser Val Cys Gln Ala Cys Thr Arg Ser Glu Leu Pro
          50           55           60
Gly Ala Leu Arg Thr Arg Gly Ser Thr
 65           70           73

```

<210> 1592

<211> 62

<212> PRT

<213> Homo sapiens

<400> 1592

```

Met Tyr Phe Ser Leu Ile Phe Leu Val Phe Phe Phe Leu Ser Leu Pro
 1           5           10           15
Leu Ser Ser Ser Ser Ser Glu Pro Thr Ser Ser Ile Leu Gly Phe Ser
          20           25           30
Ser Ser Ser Leu Ser Ser Ser Ser Phe Ser Pro Phe Ser Ser Ser Ala
          35           40           45
Ser Ser Ser Leu Ile Ser Phe Ser Arg Ser Phe Ser Lys *
          50           55           60           61

```

<210> 1593

<211> 128

<212> PRT

<213> Homo sapiens

<400> 1593

```

Met Arg Ala Met Leu Gly Thr Cys Ala Leu Gly Gln Phe Phe Leu Ile
 1           5           10           15
Met Gly Asn Thr Gln Arg Cys Asp Asp Phe Pro Thr Glu Ser Pro Pro
          20           25           30
Ala Lys Thr Asn Val Ser Arg Ala Gly Leu Ser Pro Pro Cys Glu Ala
          35           40           45
Leu His Gly Val Glu Ser Arg Gly Ser Cys Ser His Gly Lys Leu Gln
          50           55           60
Ser Pro Pro Gly Arg Asp Trp Pro Gln Gly Asp Pro Gln Asp Arg Pro
          65           70           75           80
Lys Arg Arg Trp Gln Arg Pro Gly Pro Ala Gly Arg Gly Ala Pro Asp
          85           90           95
Pro Thr Pro Lys Gly Gln Gly Ala Ala Val Pro Pro Arg Ser Ala Ser
          100          105          110
Met Phe Leu Ile His Lys Gln Met Trp Ala Tyr Gly Phe Gly Asp *
          115          120          125          127

```

<210> 1594
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1594
 Met Ile Trp Ala Leu Ser Ser Ser Leu Ile Pro Phe Leu Ile Ala Leu
 1 5 10 15
 Cys Phe Val His Ser Ala Asn Ser His Leu Gln Val Leu Val Ile Cys
 20 25 30
 Ser Ser Leu Phe Leu Glu Pro Pro Pro His Asn Phe Met *
 35 40 45

<210> 1595
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 1595
 Met Trp Glu Glu Leu Leu Arg Gly Leu Thr Ala Pro Tyr Trp Leu Ser
 1 5 10 15
 Ser Trp Leu Cys Phe Ser Trp Arg Ala Ala Thr Val Ala Val Ala Val
 20 25 30
 Ala Val Ala Val Ala Ala Ala Ala Thr Ala Ala Ala Ala Ala
 35 40 45
 Cys Val Lys Ser Val Glu Gly Leu Ala Ala Cys Glu Gly Arg Pro Arg
 50 55 60
 Pro Pro Gly Pro Pro Ala Tyr Leu Gln Glu Thr Gln Asp Cys His Ala
 65 70 75 80
 Leu Cys Val Gly Ser *
 85

<210> 1596
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 1596
 Met Val Leu Ser Trp Leu Thr Leu Ile Glu Ala Leu Ala Asp Val Met
 1 5 10 15
 Thr Thr Asp Gly Asn Met Leu Gln Leu Phe Cys Val Glu Arg Thr Asn
 20 25 30
 Leu Leu Val Asn Gln Ile Arg Met Thr Leu Tyr Ala Gln Tyr Arg His
 35 40 45
 Val Arg Pro Phe Arg Thr Ile Met Lys Pro Ile Leu Thr Arg Glu Val
 50 55 60
 Gln Thr Lys Asp *
 65 68

<210> 1597
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1597
 Met Phe Leu Leu Phe Ser Arg Ile Ser Asn Leu Met Phe Val Asn His
 1 5 10 15
 Lys Leu Pro Met Leu Ile Thr Glu Asn Lys Gln Val Ser Lys Glu Glu
 20 25 30
 Asn Lys Ala Thr His Ser His Arg Ser Ser Phe Gln Ser Ser Thr Ile
 35 40 45
 Ser Ser Arg Leu Asn Leu Ile *
 50 55

<210> 1598
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 1598
 Met His Glu Ser Pro Leu Ala Trp Ala Ser Val His Leu Ser Ser Leu
 1 5 10 15
 Pro Leu Leu Cys Thr Ala Cys Ser Ser Pro Leu Met Gly Asn Ser Val
 20 25 30
 Leu Cys Arg Ala Pro Ala Asp Met Gly Leu Ala Trp Met Leu Leu Leu
 35 40 45
 Ser Glu Pro Arg Arg Val Val Pro Gly Ile Ala Ala Gln Val Leu Thr
 50 55 60
 Ala Leu Arg Arg Arg Leu Leu Ser Gly Thr Leu Pro Ser Phe Pro Arg
 65 70 75 80
 Arg Lys Asn Pro Leu His Glu His Leu Leu Ala Phe Ile Val Arg Leu
 85 90 95 96
 *

<210> 1599
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 1599
 Met Thr Val Ser Gly Thr Val Val Leu Val Ala Gly Thr Leu Cys Phe
 1 5 10 15
 Ala Trp Trp Ser Glu Gly Asp Ala Thr Ala Gln Pro Gly Gln Leu Ala
 20 25 30
 Pro Pro Thr Glu Tyr Pro Val Pro Glu Gly Pro Ser Pro Leu Leu Arg
 35 40 45
 Ser Val Ser Phe Val Cys Cys Gly Ala Gly Gly Leu Leu Leu Ile
 50 55 60
 Gly Leu Leu Trp Ser Val Lys Ala Ser Ile Pro Gly Pro Pro Arg Trp

```
<210> 1600
<211> 103
<212> PRT
<213> Homo sapiens
```

```
<210> 1601
<211> 84
<212> PRT
<213> Homo sapiens
```

```
<210> 1602
<211> 91
<212> PRT
```


<213> Homo sapiens

<400> 1602

```

Met Lys Thr Leu Pro Val Leu Val Leu Ser Leu Thr Leu Leu Thr Val
 1              5              10              15
Phe Ser Glu Thr Ser Pro Ile Leu Thr Glu Lys Gln Ala Lys Gln Leu
              20              25              30
Leu Arg Ser Arg Arg Gln Asp Arg Pro Ser Lys Pro Gly Phe Pro Asp
              35              40              45
Glu Pro Met Arg Glu Tyr Met His His Leu Leu Ala Leu Glu His Arg
              50              55              60
Ala Glu Glu Gln Phe Leu Glu His Trp Leu Asn Pro His Cys Lys Pro
              65              70              75              80
His Cys Asp Arg Asn Arg Ile His Pro Val *
              85              90

```

<210> 1603

<211> 69

<212> PRT

<213> Homo sapiens

<400> 1603

```

Met Lys Arg Asp Val Leu Ile Thr Glu Thr Phe Cys Ile Leu Phe Trp
 1              5              10              15
Leu Cys Ala Phe Ser Ser Met Asn Asp Tyr Val Phe Lys Pro His Val
              20              25              30
Leu Tyr Ile Asp Cys Pro Leu Lys Arg Leu Asp Ser Ser Val Cys Gln
              35              40              45
His Ile Gly Thr Glu Tyr Asn Tyr Thr Leu Ile Ile Ser Gln Val Phe
              50              55              60
Ile Leu Glu Val *
              65              68

```

<210> 1604

<211> 83

<212> PRT

<213> Homo sapiens

<400> 1604

```

Met Leu Gln Pro Met Phe Phe Thr Leu Ser Thr His Leu Val Gly Leu
 1              5              10              15
Ser Gln Ile Ser Tyr Leu Ser Phe Pro Leu Ile Ser Leu His Pro Ala
              20              25              30
Gln Val Val Lys Arg Gln Ser Ser Leu Pro Arg Leu Met Gln Ser Ser
              35              40              45
Lys Glu Ser Lys Ala Val Leu Val Glu Ile Ile Leu Arg Ala Arg Lys
              50              55              60
Val Val Lys Tyr Ile Ser Lys Gly Phe Leu Arg Ala Val Cys Ala Glu
              65              70              75              80
Met Ile *
              82

```

<210> 1605
 <211> 110
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(110)
 <223> Xaa = any amino acid or nothing

<400> 1605
 Met Ser Thr Ile Ile Phe Gln Trp Pro Phe Met Leu Val Ser Leu His
 1 5 10 15
 Arg Cys Arg Lys Leu Pro Arg Ala Leu Lys Asp Trp Gln Ala Phe Leu
 20 25 30
 Asp Leu Lys Lys Ile Ile Asp Asp Phe Ser Glu Cys Cys Pro Leu Leu
 35 40 45
 Glu Tyr Met Gly Ser Lys Ala Met Met Glu Arg His Xaa Glu Arg Ile
 50 55 60
 Thr Thr Leu Thr Gly His Ser Leu Asp Val Gly Asn Glu Ser Phe Lys
 65 70 75 80
 Leu Arg Asn Ile Met Glu Ala Pro Leu Leu Xaa Tyr Lys Glu Glu Ile
 85 90 95
 Glu Val Glu Tyr Asp Val Met Glu Asp Cys Lys Val Ser Trp
 100 105 110

<210> 1606
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1606
 Met Thr Ala Gly Thr Val Thr Met Leu Leu Trp His Ala Ser Asn Trp
 1 5 10 15
 Asp Val Gln Leu Pro Ser Gln Pro Leu Val Glu Leu Thr Pro Val Arg
 20 25 30
 Asp Leu Asp Thr Ser Gly Leu Thr Ala Phe Leu Ala Arg Asp Met Asn
 35 40 45
 Leu Leu Ser Gly Asn Val Asn Thr Met Asn Gly Glu Ser Ile Ile Ala
 50 55 60
 Ile Thr Met Lys Met Leu Ala *
 65 70 71

<210> 1607
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 1607
 Met Phe Thr Arg Phe Ile Gly Leu Phe Leu Lys Phe Ile Leu Met Phe
 1 5 10 15

Phe Leu Leu Leu Ser Phe Ile Ser Tyr Phe Cys Leu Phe Pro Cys Ser
 20 25 30
 Asn Leu Pro Lys Val Ile Ala Ile Phe Asn Ile Val Leu Ile Leu Ser
 35 40 45
 Ile Val Phe Arg Glu Ile Thr Asp Thr Tyr *
 50 55 58

<210> 1608
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 1608
 Met Leu Val Thr Asp Thr Glu Ala Phe Trp Gln Pro Gln Pro Trp Phe
 1 5 10 15
 Val Val Val Leu Thr Ala Thr Gly Ala Leu Leu Leu Ala Leu Gly
 20 25 30
 Trp Leu Leu Gly Arg Leu Leu Gln Gly Leu Ala Gln Leu Leu Gln Ala
 35 40 45
 Pro Ser Lys Pro Ala Gln Ala Leu Leu Leu Asn Ser Ile Gln Gly Thr
 50 55 60
 Glu Gly Ser Ile Glu Gly Phe Leu Glu Ala Pro Lys Met Glu Met Ser
 65 70 75 80
 Gln Ala Pro Ser Ser Val Met Ser Leu Gln His Phe Asp Gly Arg Thr
 85 90 95
 Gln Asp Ser Arg Thr Gly Arg Asp Tyr Leu Val Asn Thr His Thr Gly
 100 105 110
 Ala Arg Arg Trp Leu *
 115 117

<210> 1609
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1609
 Met Val Ile Gly Ser Leu His Thr Phe Thr Leu Leu Ala Ala Ser Ser
 1 5 10 15
 Leu Val Asp Thr Pro Lys Gln Ile Gln Leu Leu Met Gln Asn Leu Met
 20 25 30
 Asn Asp Pro Arg Lys Glu Val Lys Ile Leu Ala Ile Gln Asp Leu Lys
 35 40 45
 Leu Leu
 50

<210> 1610
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1610

```

Met Val Leu Ile Leu Ser Pro Gly Leu Ser Ile Leu Phe Thr Lys Met
 1             5             10             15
Ser Glu Thr Phe Ser Ser Ser Leu Leu Lys Leu Ser Ser Ser Ile Cys
             20             25             30
Ile Phe Pro Leu Cys Ile Asn Met Ile Ile Cys Tyr Gln Lys Lys Ser
             35             40             45
Gln *
49

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<210> 1611

<211> 56

<212> PRT

<213> Homo sapiens

<400> 1611

```

Met Ser Phe Gln Ala Phe Val Phe Leu Met Ile Gly Trp Leu His Pro
 1             5             10             15
Asp Pro Arg Leu Met Thr Gln Arg Ser Cys Gly Pro His Pro Glu Val
             20             25             30
Asp Ser Ala Gln Glu Asp His Phe Ser His Pro Tyr Asp Ile Pro Asn
             35             40             45
Gln Ser Ala Pro Pro Leu Pro *
50             55

```

<210> 1612

<211> 75

<212> PRT

<213> Homo sapiens

<400> 1612

```

Met Leu Thr Leu Ala Leu Leu Val Leu Arg Ile Cys Val Cys Glu Ala
 1             5             10             15
Ala Ser Thr Phe Val Cys Pro Cys Leu Pro Trp Leu Ser Leu Leu Phe
             20             25             30
Leu His Leu Leu Pro Arg Leu Phe Gln Val Gln Ile Trp Phe Leu Leu
             35             40             45
Phe Leu Pro Phe Leu Leu Leu Leu Pro Ser Val Pro Glu Ile Phe Pro
             50             55             60
Ala Pro Gln Ala Trp Gly Leu Gly Cys Ser *
65             70             74

```

<210> 1613

<211> 192

<212> PRT

<213> Homo sapiens

<400> 1613

```

Met Phe Thr Cys Leu Phe Leu Phe Ser Ala Val Leu Arg Ala Leu Phe
 1             5             10             15

```

```

Arg Lys Ser Asp Pro Lys Arg Phe Gln Asn Ile Phe Thr Thr Ile Phe
      20      25      30
Thr Leu Phe Thr Leu Leu Thr Leu Asp Asp Trp Ser Leu Ile Tyr Met
      35      40      45
Asp Ser Arg Ala Gln Gly Ala Trp Tyr Ile Ile Pro Ile Leu Ile Ile
      50      55      60
Tyr Ile Ile Ile Gln Tyr Phe Ile Phe Leu Asn Leu Val Ile Thr Val
      65      70      75      80
Leu Val Asp Ser Phe Gln Thr Ala Leu Phe Lys Gly Leu Glu Lys Ala
      85      90      95
Lys Gln Glu Arg Ala Ala Arg Ile Gln Glu Lys Leu Leu Glu Asp Ser
      100      105      110
Leu Thr Glu Leu Arg Ala Ala Glu Pro Lys Glu Val Ala Ser Glu Gly
      115      120      125
Thr Met Leu Lys Arg Leu Ile Glu Lys Lys Phe Gly Thr Met Thr Glu
      130      135      140
Lys Gln Gln Glu Leu Leu Phe His Tyr Leu Gln Leu Val Ala Ser Val
      145      150      155      160
Glu Gln Glu Gln Gln Lys Phe Arg Ser Gln Ala Ala Val Ile Asp Glu
      165      170      175
Ile Val Asp Thr Thr Phe Glu Ala Gly Glu Glu Asp Phe Arg Asn *
      180      185      190 191

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<210> 1614
 <211> 153
 <212> PRT
 <213> Homo sapiens

```

<400> 1614
Met Asp Leu Val Gln Phe Phe Val Thr Phe Phe Ser Cys Phe Leu Ser
      1      5      10      15
Leu Leu Leu Val Ala Ala Val Val Trp Lys Ile Lys Gln Thr Cys Trp
      20      25      30
Ala Ser Arg Arg Arg Glu Gln Leu Leu Arg Glu Arg Gln Gln Met Ala
      35      40      45
Ser Arg Pro Phe Ala Ser Val Asp Val Ala Leu Glu Val Gly Ala Glu
      50      55      60
Gln Thr Glu Phe Leu Arg Gly Pro Leu Glu Gly Ala Pro Lys Pro Ile
      65      70      75      80
Ala Ile Glu Pro Cys Ala Gly Asn Arg Ala Ala Val Leu Thr Val Phe
      85      90      95
Leu Cys Leu Pro Arg Gly Ser Ser Gly Ala Pro Pro Pro Gly Gln Ser
      100      105      110
Gly Leu Ala Ile Ala Ser Ala Leu Ile Asp Ile Ser Gln Gln Lys Ala
      115      120      125
Ser Asp Ser Lys Asp Lys Thr Ser Gly Val Arg Asn Arg Lys His Leu
      130      135      140
Ser Thr Arg Gln Gly Thr Cys Val *
      145      150      152

```

<210> 1615
 <211> 135
 <212> PRT
 <213> Homo sapiens

<400> 1615

```

Met His Trp Leu Arg Ala Ser Ala Gly Ser Leu Leu Met Val Pro Leu
 1          5          10          15
Met Thr Asp Leu His Glu Leu Ala Leu Pro Pro Ala Ser Leu Arg Thr
          20          25          30
Val Val Lys Glu Asn Met Cys Val Leu Pro Phe Pro Val Lys Thr Ser
          35          40          45
Gly Arg Ser Leu Thr Gly Ser Ala Trp Ser Arg Phe His Leu Pro Cys
          50          55          60
His Leu Arg Pro Gly Asp Arg Leu Pro Cys His Cys Leu Gly Lys Phe
          65          70          75          80
Arg Lys Arg Val Ala Lys Trp Cys Ile Arg Lys Asn Met Ala Arg Ser
          85          90          95
Pro His Leu Leu Gly Gly Arg Pro Asn Ser Thr Ser Gly Pro Leu Cys
          100          105          110
Asp Phe Pro Ala Pro Ser Lys Gln Val Thr Pro Leu Leu Trp Val Ser
          115          120          125
Val Ser Leu Pro Ile Lys *
          130          134

```

<210> 1616

<211> 60

<212> PRT

<213> Homo sapiens

<400> 1616

```

Met Leu His Gln Met Lys Phe Ile Gly His Leu Ile Phe Ile Val Val
 1          5          10          15
Leu Asp Pro Asp Leu Ser Asp Met Lys Asn Asn Glu Pro Tyr Asp Tyr
          20          25          30
Lys Phe Val Lys Trp Met Thr Lys His Lys Val Met Phe Ile Val Leu
          35          40          45
Cys Lys Ile Leu Leu Tyr Phe Ile Val Asn Phe *
          50          55          59

```

<210> 1617

<211> 49

<212> PRT

<213> Homo sapiens

<400> 1617

```

Met Pro Glu His Leu Cys Phe Glu Ile Cys Asn Thr Leu Leu Asn Phe
 1          5          10          15
Phe Ser Phe Leu Leu Cys Val Thr Asp His Glu Thr Thr Phe Phe
          20          25          30
Asp Ser Gly Trp Lys Ala Ser Gly Ser Thr Val Thr Cys Lys Ala Gly
          35          40          45          48
*

```

<210> 1618
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 1618
 Met Trp Thr Val Leu Trp His Arg Phe Ser Met Val Leu Arg Leu Pro
 1 5 10 15
 Glu Glu Ala Ser Ala Gln Glu Gly Glu Leu Ser Leu Ser Ser Pro Pro
 20 25 30
 Ser Pro Glu Pro Asp Trp Thr Leu Ile Ser Pro Gln Gly Met Ala Ala
 35 40 45
 Leu Leu Ser Leu Ala Met Ala Thr Phe Thr Gln Glu Pro Gln Leu Cys
 50 55 60
 Leu Ser Cys Leu Ser Gln His Gly Ser Ile Leu Met Ser Ile Leu Lys
 65 70 75 80
 His Leu Leu Cys Pro Ser Phe Leu Asn Gln Leu Arg Gln Ala *
 85 90 94

<210> 1619
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1619
 Met Ile Leu Met Leu Leu Leu Ile Val Asp Leu Val Gln Leu Ala
 1 5 10 15
 Gly Asn Ala Val Ile Ser Ser Gly Ser Trp Asp Ser Ala Cys Thr Gly
 20 25 30
 Thr Pro Ser Pro Ser Thr Pro Ser Thr Trp Pro Gly Pro Thr Ser Ser
 35 40 45
 Ser Ala Pro Arg Phe *
 50 53

<210> 1620
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 1620
 Met Cys Cys Ser Phe Leu Leu Glu Gly Leu Ile Ser Leu Phe Ser Leu
 1 5 10 15
 Gln Leu Phe Ser Val Gln Leu Val Leu Leu Phe Phe Leu Trp Ile Val
 20 25 30
 Ser Tyr Ser Lys Lys Gln Ile Lys Asp Thr Phe Ala Lys Thr Lys Asn
 35 40 45
 Thr Val Ala Arg Ile Leu Leu Ser Ile Pro Asp Leu Pro Ser Leu Thr
 50 55 60
 Leu Ile Thr Gln Ile Leu *
 65 70

<210> 1621
 <211> 90
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(90)
 <223> Xaa = any amino acid or nothing

<400> 1621
 Met Asp His Lys Ser Leu Trp Ala Gly Val Glu Val Leu Leu Leu Leu
 1 5 10 15
 Gln Gly Gly Ser Ala Tyr Lys Leu Val Cys Tyr Phe Thr Asn Trp Ser
 20 25 30
 Gln Asp Arg Gln Glu Pro Gly Lys Phe Thr Pro Glu Asn Ile Asp Pro
 35 40 45
 Phe Leu Cys Ser His Leu Ile Tyr Ser Phe Ala Ser Ile Glu Asn Asn
 50 55 60
 Lys Val Ile Ile Arg Thr Pro Xaa Phe Phe Pro Leu Pro Leu Gly His
 65 70 75 80
 Arg Leu Gln Thr Ile Asn Pro Arg Leu *
 85 89

<210> 1622
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1622
 Met Gln Cys Ala Ile Cys Ile Leu Leu Tyr Leu Leu Asn Lys Lys Thr
 1 5 10 15
 Val Trp Arg Cys Ser Arg Ile His His Asn Asn Thr Val Val Leu Thr
 20 25 30
 Arg Glu Ser Ser Pro Phe Leu Thr Thr Cys Thr Leu Ser Ser Val Leu
 35 40 45
 Leu Thr Lys Ala *
 50 52

<210> 1623
 <211> 978
 <212> PRT
 <213> Homo sapiens

<400> 1623
 Met Pro Ala Arg Leu Leu Leu Leu Leu Thr Leu Leu Leu Pro Gly
 1 5 10 15
 Leu Gly Ile Phe Gly Ser Thr Ser Thr Val Thr Leu Pro Glu Thr Leu
 20 25 30
 Leu Phe Val Ser Thr Leu Asp Gly Ser Leu His Ala Val Ser Lys Arg
 35 40 45

Thr Gly Ser Ile Lys Trp Thr Leu Lys Glu Asp Pro Val Leu Gln Val
 50 55 60
 Pro Thr His Val Glu Glu Pro Ala Phe Leu Pro Asp Pro Asn Asp Gly
 65 70 75 80
 Ser Leu Tyr Thr Leu Gly Ser Lys Asn Asn Glu Gly Leu Thr Lys Leu
 85 90 95
 Pro Phe Thr Ile Pro Glu Leu Val Gln Ala Ser Pro Cys Arg Ser Ser
 100 105 110
 Asp Gly Ile Leu Tyr Met Gly Lys Lys Gln Asp Ile Trp Tyr Val Ile
 115 120 125
 Asp Leu Leu Thr Gly Glu Lys Gln Gln Thr Leu Ser Ser Ala Phe Ala
 130 135 140
 Asp Ser Leu Cys Pro Ser Thr Ser Leu Leu Tyr Leu Gly Arg Thr Glu
 145 150 155 160
 Tyr Thr Ile Thr Met Tyr Asp Thr Lys Thr Arg Glu Leu Arg Trp Asn
 165 170 175
 Ala Thr Tyr Phe Asp Tyr Ala Ala Ser Leu Pro Glu Asp Asp Val Asp
 180 185 190
 Tyr Lys Met Ser His Phe Val Ser Asn Gly Asp Gly Leu Val Val Thr
 195 200 205
 Val Asp Ser Glu Ser Gly Asp Val Leu Trp Ile Gln Asn Tyr Ala Ser
 210 215 220
 Pro Val Val Ala Phe Tyr Val Trp Gln Arg Glu Gly Leu Arg Lys Val
 225 230 235 240
 Met His Ile Asn Val Ala Val Glu Thr Leu Arg Tyr Leu Thr Phe Met
 245 250 255
 Ser Gly Glu Val Gly Arg Ile Thr Lys Trp Lys Tyr Pro Phe Pro Lys
 260 265 270
 Glu Thr Glu Ala Lys Ser Lys Leu Thr Pro Thr Leu Tyr Val Gly Lys
 275 280 285
 Tyr Ser Thr Ser Leu Tyr Ala Ser Pro Ser Met Val His Glu Gly Val
 290 295 300
 Ala Val Val Pro Arg Gly Ser Thr Leu Pro Leu Leu Glu Gly Pro Gln
 305 310 315 320
 Thr Asp Gly Val Thr Ile Gly Asp Lys Gly Glu Cys Val Ile Thr Pro
 325 330 335
 Ser Thr Asp Val Lys Phe Asp Pro Gly Leu Lys Ser Lys Asn Lys Leu
 340 345 350
 Asn Tyr Leu Arg Asn Tyr Trp Leu Leu Ile Gly His His Glu Thr Pro
 355 360 365
 Leu Ser Ala Ser Thr Lys Met Leu Glu Arg Phe Pro Asn Asn Leu Pro
 370 375 380
 Lys His Arg Glu Asn Val Ile Pro Ala Asp Ser Glu Lys Lys Ser Phe
 385 390 395 400
 Glu Glu Val Ile Asn Leu Val Asp Gln Thr Ser Glu Asn Ala Pro Thr
 405 410 415
 Thr Val Ser Arg Asp Val Glu Glu Lys Pro Ala His Ala Pro Ala Arg
 420 425 430
 Pro Glu Ala Pro Val Asp Ser Met Leu Lys Asp Met Ala Thr Ile Ile
 435 440 445
 Leu Ser Thr Phe Leu Leu Ile Gly Trp Val Ala Phe Ile Ile Thr Tyr
 450 455 460
 Pro Leu Ser Met His Gln Gln Gln Gln Leu Gln His Gln Gln Phe Gln
 465 470 475 480
 Lys Glu Leu Glu Lys Ile Gln Leu Leu Gln Gln Gln Gln Gln Gln Leu
 485 490 495
 Pro Phe His Pro Pro Gly Asp Thr Ala Gln Asp Gly Glu Leu Leu Asp
 500 505 510
 Thr Ser Gly Pro Tyr Ser Glu Ser Ser Gly Thr Ser Ser Pro Ser Thr

515	520	525
Ser Pro Arg Ala Ser Asn His Ser Leu Cys Ser Gly Ser Ser Ala Ser		
530	535	540
Lys Ala Gly Ser Ser Pro Ser Leu Glu Gln Asp Asp Gly Asp Glu Glu		
545	550	555
Thr Ser Val Val Ile Val Gly Lys Ile Ser Phe Cys Pro Lys Asp Val		
565	570	575
Leu Gly His Gly Ala Glu Gly Thr Ile Val Tyr Arg Gly Met Phe Asp		
580	585	590
Asn Arg Asp Val Ala Val Lys Arg Ile Leu Pro Glu Cys Phe Ser Phe		
595	600	605
Ala Asp Arg Glu Val Gln Leu Leu Arg Glu Ser Asp Glu His Pro Asn		
610	615	620
Val Ile Arg Tyr Phe Cys Thr Glu Lys Asp Arg Gln Phe Gln Tyr Ile		
625	630	635
Ala Ile Glu Leu Cys Ala Ala Thr Leu Gln Glu Tyr Val Glu Gln Lys		
645	650	655
Asp Phe Ala His Leu Gly Leu Glu Pro Ile Thr Leu Leu Gln Gln Thr		
660	665	670
Thr Ser Gly Leu Ala His Leu His Ser Leu Asn Ile Val His Arg Asp		
675	680	685
Leu Lys Pro His Asn Ile Leu Ile Ser Met Pro Asn Ala His Gly Lys		
690	695	700
Ile Lys Ala Met Ile Ser Asp Phe Gly Leu Trp Lys Lys Leu Ala Val		
705	710	715
Gly Arg His Ser Phe Ser Arg Arg Ser Gly Val Pro Gly Thr Glu Gly		
725	730	735
Trp Ile Ala Pro Glu Met Leu Ser Glu Asp Cys Lys Glu Asn Pro Thr		
740	745	750
Tyr Thr Val Asp Ile Phe Ser Ala Gly Cys Val Phe Tyr Tyr Val Ile		
755	760	765
Ser Glu Gly Ser His Pro Phe Gly Lys Ser Leu Gln Arg Gln Ala Asn		
770	775	780
Ile Leu Leu Gly Ala Cys Ser Leu Asp Cys Leu His Pro Glu Lys His		
785	790	795
Glu Asp Val Ile Ala Arg Glu Leu Ile Glu Lys Met Ile Ala Met Asp		
805	810	815
Pro Gln Lys Arg Pro Ser Ala Lys His Val Leu Lys His Pro Phe Phe		
820	825	830
Trp Ser Leu Glu Lys Gln Leu Gln Phe Phe Gln Asp Val Ser Asp Arg		
835	840	845
Ile Glu Lys Glu Ser Leu Asp Gly Pro Ile Val Lys Gln Leu Glu Arg		
850	855	860
Gly Gly Arg Ala Val Val Lys Met Asp Trp Arg Glu Asn Ile Thr Val		
865	870	875
Pro Leu Gln Thr Asp Leu Arg Lys Phe Arg Thr Tyr Lys Gly Gly Ser		
885	890	895
Val Arg Asp Leu Leu Arg Ala Met Arg Asn Lys Lys His His Tyr Arg		
900	905	910
Glu Leu Pro Ala Glu Val Arg Glu Thr Leu Gly Thr Leu Pro Asp Asp		
915	920	925
Phe Val Cys Tyr Phe Thr Ser Arg Phe Pro His Leu Leu Ala His Thr		
930	935	940
Tyr Arg Ala Met Glu Leu Cys Ser His Glu Arg Leu Phe Gln Pro Tyr		
945	950	955
Tyr Phe His Glu Pro Pro Glu Pro Gln Pro Pro Val Thr Pro Asp Ala		
965	970	975
Leu *		
977		

<210> 1624
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1624
 Met His Ser Cys Trp Thr Phe Gln Asp Leu Ser Leu Val Gln Leu Cys
 1 5 10 15
 Leu Pro Leu Ser Cys Pro Gln Gln Gly Pro Val Gly Pro Gly Gly Phe
 20 25 30
 Leu Leu Pro Val Ser Gln Val Gly Pro Pro Lys Pro Ala Gly His Trp
 35 40 45
 Gln Arg Lys Leu Leu Met Pro *
 50 55

<210> 1625
 <211> 146
 <212> PRT
 <213> Homo sapiens

<400> 1625
 Met Glu Leu Ala Leu Leu Cys Gly Leu Val Val Met Ala Gly Val Ile
 1 5 10 15
 Pro Ile Gln Gly Gly Ile Leu Asn Leu Asn Lys Met Val Lys Gln Val
 20 25 30
 Thr Gly Lys Met Pro Ile Leu Ser Tyr Trp Pro Tyr Gly Cys His Cys
 35 40 45
 Gly Leu Gly Gly Arg Gly Gln Pro Lys Asp Ala Thr Asp Trp Cys Cys
 50 55 60
 Gln Thr His Asp Cys Cys Tyr Asp His Leu Lys Thr Gln Gly Cys Gly
 65 70 75 80
 Ile Tyr Lys Asp Tyr Tyr Arg Tyr Asn Phe Ser Gln Gly Asn Ile His
 85 90 95
 Cys Ser Asp Lys Gly Ser Trp Cys Glu Gln Gln Leu Cys Ala Cys Asp
 100 105 110
 Lys Glu Val Ala Phe Cys Leu Lys Arg Asn Leu Asp Thr Tyr Gln Lys
 115 120 125
 Arg Leu Arg Phe Tyr Trp Arg Pro His Cys Arg Gly Gln Thr Pro Gly
 130 135 140
 Cys *
 145

<210> 1626
 <211> 385
 <212> PRT
 <213> Homo sapiens

<400> 1626
 Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly

1	5	10	15
Val Gln Cys	Glu Val Gln Leu Val	Glu Ser Gly Gly Gly	Leu Val Gln
	20	25	30
Pro Gly Gly	Ser Leu Arg Leu Ser	Cys Ala Ala Ser	Gly Phe Thr Phe
	35	40	45
Ser Ser Tyr	Ala Met Ser Trp Val	Arg Gln Ala Pro	Gly Lys Gly Leu
	50	55	60
Glu Trp Val	Ser Gly Ile Gly Gly	Ser Gly Ser Ser	Thr Tyr Tyr Ala
	65	70	75
Asp Ser Val	Lys Gly Arg Phe Thr	Ile Ser Arg Asp	Asn Ser Gln Asn
	85	90	95
Thr Leu Tyr	Leu Gln Met Asn Ser	Leu Arg Ala Glu	Asp Thr Ala Val
	100	105	110
Tyr Tyr Cys	Ala Lys Ser His Pro	Ala Tyr Tyr Tyr	Gly Ser Gly Ser
	115	120	125
Tyr Ser Ser	His Tyr Tyr Tyr Tyr	Gly Met Asp Val	Trp Gly Gln
	130	135	140
Gly Thr Thr	Val Thr Val Ser Ser	Gly Asp Gly Ser	Ser Gly Gly Ser
	145	150	155
Gly Gly Ala	Ser Thr Gly Glu Ile Val	Leu Thr Gln Ser	Pro Gly Thr
	165	170	175
Leu Ser Leu	Ser Pro Gly Glu Arg Ala	Thr Leu Ser Cys	Arg Ala Ser
	180	185	190
Gln Ser Val	Ser Ser Ser Tyr Leu	Ala Trp Tyr Gln	Gln Lys Pro Gly
	195	200	205
Gln Ala Pro	Arg Leu Leu Ile Tyr	Gly Ala Ser Ser	Arg Ala Thr Gly
	210	215	220
Ile Pro Asp	Arg Phe Ser Gly Ser Gly	Ser Gly Thr Asp	Phe Thr Leu
	225	230	235
Thr Ile Ser	Arg Leu Glu Pro Glu Asp	Phe Ala Val Tyr	Tyr Cys Gln
	245	250	255
Gln Tyr Gly	Ser Ser Pro Thr Thr	Phe Gly Gln Gly	Thr Lys Val Glu
	260	265	270
Ile Lys Arg	Thr Val Ala Ala Pro	Ser Val Phe Ile	Phe Pro Pro Ser
	275	280	285
Asp Glu Gln	Leu Lys Ser Gly Thr	Ala Ser Val Val	Cys Leu Leu Asn
	290	295	300
Asn Phe Tyr	Pro Arg Glu Ala Lys	Val Gln Trp Lys	Val Asp Asn Ala
	305	310	315
Leu Gln Ser	Gly Asn Ser Gln Glu	Ser Val Thr Glu	Gln Asp Ser Lys
	325	330	335
Asp Ser Thr	Tyr Ser Leu Ser Ser	Thr Leu Thr Leu	Ser Lys Ala Asp
	340	345	350
Tyr Glu Lys	His Lys Val Tyr Ala	Cys Glu Val Thr	His Ser Gly Ala
	355	360	365
Leu Ser Phe	Ala Arg Ser Gln Arg	Ser Phe Gln Pro	Gly Glu Ser Val
	370	375	380
			384

*

<210> 1627
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 1627

```

Met Ile Val His Cys Thr Ile Ile Pro Leu Ser Phe Cys Val His Arg
 1           5           10           15
Leu Arg Ala Pro Leu Asp Ala Tyr Phe Gln Val Ser Arg Thr Gln Pro
      20           25           30
Asp Leu Pro Ala Thr Thr Tyr Asp Ser Glu Thr Arg Asn Pro Val Ser
      35           40           45
Glu Glu Leu Gln Val Ser Ser Ser Ser Asp Ser Asp Ser Ser Ser
      50           55           60
Ala Glu Tyr Gly Gly Val Val Asp Gln Ala Glu Glu Ser Gly Ala Val
      65           70           75           80
Ile Leu Glu Gly Gln Tyr Phe Thr Gln Val Trp Thr His Lys Ala Asn
      85           90           95
Ile His Glu Ala *
      100

```

```

<210> 1628
<211> 71
<212> PRT
<213> Homo sapiens

```

```

<400> 1628
Met Ile Phe Tyr Val Ile Leu Ser Ser Pro Ser Ser Arg Thr Phe Phe
 1           5           10           15
Lys Ile Thr Leu Ile Met Ser Leu Gly Leu Ile Ser Lys Leu Leu Ile
      20           25           30
Thr Ser Cys Thr Phe Asp Thr Val Thr Phe Met Met Leu Thr Asn Ile
      35           40           45
Thr Lys Met Lys Ile Ser Ser Gly Lys Ala Thr Gln Ser Gln Glu Phe
      50           55           60
Phe Ser Glu Leu Ile Leu Tyr
      65           70 71

```

```

<210> 1629
<211> 112
<212> PRT
<213> Homo sapiens

```

```

<400> 1629
Met Ala His Tyr Lys Thr Glu Gln Asp Asp Trp Leu Ile Ile Tyr Leu
 1           5           10           15
Lys Tyr Leu Leu Phe Val Phe Asn Phe Phe Phe Trp Val Gly Gly Ala
      20           25           30
Ala Val Leu Ala Val Gly Ile Trp Thr Leu Val Glu Lys Ser Gly Tyr
      35           40           45
Leu Ser Val Leu Ala Ser Ser Thr Phe Ala Ala Ser Ala Tyr Ile Leu
      50           55           60
Ile Phe Ala Gly Val Leu Val Met Val Thr Gly Phe Leu Gly Phe Gly
      65           70           75           80
Ala Ile Leu Trp Glu Arg Lys Gly Cys Leu Ser Thr Tyr Phe Cys Leu
      85           90           95
Leu Leu Val Ile Phe Leu Asp Glu Leu Glu Ala Gly Val Leu Ala His
      100           105           110           112

```

<210> 1630
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1630
 Met Trp Pro Gln Leu Leu Lys Ser Phe Phe Leu Ile Pro Thr Gln Ile
 1 5 10 15
 His Phe Asn Leu Thr Asn Leu Pro Ser Trp Arg Arg Arg Glu Leu Arg
 20 25 30
 Arg Phe Val Trp Val Ser Met Pro Glu Leu Ile Gly Ala Ser *
 35 40 45 46

<210> 1631
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 1631
 Met Tyr Met Trp Ser Gly Leu Leu Gly Ser Lys Trp Thr Leu Val Tyr
 1 5 10 15
 Ser His Phe Leu Asn Met Ala Pro Ala Ser Phe Ser His Tyr Gln Ala
 20 25 30
 Ser Leu Pro Leu Leu Glu His Asp Thr Leu Ser Ser Ser Arg Val His
 35 40 45
 Ser Tyr Gln Cys Pro Gly Phe Phe Cys Phe Phe Pro Ser Val Leu Glu
 50 55 60
 Phe Ser Gln Leu Gln Lys Thr Tyr Ser Leu Cys Leu Pro Phe *
 65 70 75 78

<210> 1632
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1632
 Met Phe Met Cys Arg Leu Leu Leu Trp Ala Thr Gly Ala Tyr Gly Phe
 1 5 10 15
 Leu Gly Asp Asp Val Glu Tyr Thr Ser Val Leu Pro His Gln Lys Gly
 20 25 30
 Lys Glu Ala Trp Val Phe Ile Cys Gln Leu Pro Phe Ile Ile Gly *
 35 40 45 47

<210> 1633
 <211> 58
 <212> PRT

<213> Homo sapiens

<400> 1633

```

Met Cys Leu Arg Arg Thr Leu Leu Trp His Leu His Ile Ala Pro Leu
 1          5          10          15
Val Asn Ile Leu Ser Asp Tyr Lys Pro Leu Gly Arg Trp Asn His Ala
      20          25          30
Pro Ala Leu Thr Ala Gly Ala Leu His Lys Thr Thr Ile Leu Leu Pro
      35          40          45
Gln Gly His Pro Lys Ala Ala Asn Pro *
      50          55          57

```

<210> 1634

<211> 55

<212> PRT

<213> Homo sapiens

<400> 1634

```

Met Leu Val Phe Asn Leu Ser Leu Val Leu Ser His Ser Val Leu Glu
 1          5          10          15
Phe Val Met Phe Leu Tyr Ser Leu Asp Ser Ser His Val Cys Pro Leu
      20          25          30
Val Val Pro Val Thr Leu Asp Leu Ile Tyr Leu Val Tyr Leu Pro Cys
      35          40          45
Gln Ser Tyr Ile Leu Ile *
      50          54

```

<210> 1635

<211> 78

<212> PRT

<213> Homo sapiens

<400> 1635

```

Met Ala Val Val Gln Ala Leu Thr Pro Leu Val Ser Ala Ala Ala Thr
 1          5          10          15
Ala Ser Cys Leu Thr Ser Cys Ser Trp Ser Leu Thr Phe Pro Glu His
      20          25          30
Ser Val Asn Tyr Gln Ser His Pro Ser Glu Thr Gln Pro Tyr Leu Leu
      35          40          45
Arg Ser Thr Lys Glu Lys His His His Trp Leu Thr Ala Lys Ala Thr
      50          55          60
Cys Pro Ala Ala Gly Ala Glu Gly Leu Pro Ser Arg Gly *
      65          70          75          77

```

<210> 1636

<211> 51

<212> PRT

<213> Homo sapiens

<400> 1636

```

Met Phe Cys Ser Phe Pro Leu Leu Ile Leu Gln Val Tyr Pro Thr Trp
 1          5          10          15
Lys Asn Pro Asn Trp His Leu Thr Phe His Thr Ser Val Phe Ser Phe
          20          25          30
Pro Lys Gly Val Arg Ser Leu Ala Arg Gly Ile Pro Asp His Leu His
          35          40          45
Ser Ala *
          50

```

<210> 1637

<211> 123

<212> PRT

<213> Homo sapiens

<400> 1637

```

Met Gln Gln Met Met Trp Ala Gly Leu Leu Cys Pro Gln Leu Glu Trp
 1          5          10          15
Leu Gln Gly Arg Ala Cys Arg Pro Cys Gly Leu Leu Ala Ser Asp Ala
          20          25          30
Ala Ala Leu Trp Phe Arg Gly Gly Ile Ser Ala Trp Glu Asp Ser Cys
          35          40          45
Ala Val Ser Asn Ile Arg His Glu Ala Tyr Asn Cys His Leu Ser Val
          50          55          60
Phe Leu Asn Arg Cys Ala Asn Glu Leu Thr Val Gln Phe Leu Ile Ile
          65          70          75          80
Leu Ala Phe Gln Ile Met Leu Ser Cys Ala Val Ile Ala Pro Ala Val
          85          90          95
Pro Val Phe Gln Arg Leu Thr Leu Lys Arg Ser Gly Arg Thr Ser Leu
          100          105          110
Gly Ser Thr Gly Arg Leu His Phe Cys Lys *
          115          120          122

```

<210> 1638

<211> 69

<212> PRT

<213> Homo sapiens

<400> 1638

```

Met Lys Arg Leu Arg Phe Val Leu Arg Val Phe Gln Met Thr Ala Phe
 1          5          10          15
Ile Thr Gly Ala His Thr Ile Thr Asn Tyr Ser Asp Arg Arg Leu Tyr
          20          25          30
Ile Ser Pro Leu Ser His Phe Phe Met Asn Ser Gly Ser Ser Ala Gln
          35          40          45
Ser Val Leu Ser His Ser Tyr Val Ser Gln Ile Phe Phe Lys Asn Val
          50          55          60
Ser Lys Tyr Phe *
          65          68

```

<210> 1639

<211> 92
 <212> PRT
 <213> Homo sapiens

<400> 1639
 Met Tyr Val Ala Gly Tyr Leu Val Ala Asn Ser Ala Ile Cys Gln Leu
 1 5 10 15
 Thr Gln His Ser Leu Val Lys Leu Leu Leu Gln Gly Cys Phe Leu Ile
 20 25 30
 Gly Ser Leu His Leu Cys Ile Cys Val Pro Met Cys Val Cys Val Cys
 35 40 45
 Glu Tyr Arg Ile Leu His Asp Ser Lys Ile Ser Phe Lys Tyr Leu Arg
 50 55 60
 Phe Thr Ile Leu Lys Arg Glu Asn Lys Asn Lys Val Leu Gln Lys Leu
 65 70 75 80
 Lys Lys Asn Leu Lys Ser Val His Thr Leu Ser *
 85 90 91

<210> 1640
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1640
 Met Thr Ala Trp Phe Cys Ser Phe Leu Ser Ser His Trp Val Ile Lys
 1 5 10 15
 Leu Pro Arg Phe Leu Leu Leu Val Leu Pro Phe Phe Trp Gly Lys Lys
 20 25 30
 Phe Ser Leu Gly Leu Ile Ser Gln Phe Phe Ser Lys Ala Tyr Phe Tyr
 35 40 45
 Ser Ser Tyr His Asn Tyr Ile His Thr *
 50 55 57

<210> 1641
 <211> 459
 <212> PRT
 <213> Homo sapiens

<400> 1641
 Met Ser Asp Leu Leu Ser Val Phe Leu His Leu Leu Leu Leu Phe Lys
 1 5 10 15
 Leu Val Ala Pro Val Thr Phe Arg His His Arg Tyr Asp Asp Leu Val
 20 25 30
 Arg Thr Leu Tyr Lys Val Gln Asn Glu Cys Pro Gly Ile Thr Arg Val
 35 40 45
 Tyr Ser Ile Gly Arg Ser Val Glu Gly Arg His Leu Tyr Val Leu Glu
 50 55 60
 Phe Ser Asp His Pro Gly Ile His Glu Pro Leu Glu Pro Glu Val Lys
 65 70 75 80
 Tyr Val Gly Asn Met His Gly Asn Glu Ala Leu Gly Arg Glu Leu Met
 85 90 95
 Leu Gln Leu Ser Glu Phe Leu Cys Glu Glu Phe Arg Asn Arg Asn Gln

```

      100      105      110
Arg Ile Val Gln Leu Ile Gln Asp Thr Arg Ile His Ile Leu Pro Ser
      115      120      125
Met Asn Pro Asp Gly Tyr Glu Val Ala Ala Ala Gln Gly Pro Asn Lys
      130      135      140
Pro Gly Tyr Leu Val Gly Arg Asn Asn Ala Asn Gly Val Asp Leu Asn
145      150      155      160
Arg Asn Phe Pro Asp Leu Asn Thr Tyr Ile Tyr Tyr Asn Glu Lys Tyr
      165      170      175
Gly Gly Pro Asn His His Leu Pro Leu Pro Asp Asn Trp Lys Ser Gln
      180      185      190
Val Glu Pro Glu Thr Arg Ala Val Ile Arg Trp Met His Ser Phe Asn
      195      200      205
Phe Val Leu Ser Ala Asn Leu His Gly Gly Ala Val Val Ala Asn Tyr
      210      215      220
Pro Tyr Asp Lys Ser Phe Glu His Arg Val Arg Gly Val Arg Arg Thr
225      230      235      240
Ala Ser Thr Pro Thr Pro Asp Asp Lys Leu Phe Gln Lys Leu Ala Lys
      245      250      255
Val Tyr Ser Tyr Ala His Gly Trp Met Phe Gln Gly Trp Asn Cys Gly
      260      265      270
Asp Tyr Phe Pro Asp Gly Ile Thr Asn Gly Ala Ser Trp Tyr Ser Leu
      275      280      285
Ser Lys Gly Met Gln Asp Phe Asn Tyr Leu His Thr Asn Cys Phe Glu
      290      295      300
Ile Thr Leu Glu Leu Ser Cys Asp Lys Phe Pro Pro Glu Glu Glu Leu
305      310      315      320
Gln Arg Glu Trp Leu Gly Asn Arg Glu Ala Leu Ile Gln Phe Leu Glu
      325      330      335
Gln Val His Gln Gly Ile Lys Gly Met Val Leu Asp Glu Asn Tyr Asn
      340      345      350
Asn Leu Ala Asn Ala Val Ile Ser Val Ser Gly Ile Asn His Asp Val
      355      360      365
Thr Ser Gly Asp His Gly Asp Tyr Phe Arg Leu Leu Leu Pro Gly Ile
      370      375      380
Tyr Thr Val Ser Ala Thr Ala Pro Gly Tyr Asp Pro Glu Thr Val Thr
385      390      395      400
Val Thr Val Gly Pro Ala Glu Pro Thr Leu Val Asn Phe His Leu Lys
      405      410      415
Arg Ser Ile Pro Gln Val Ser Pro Val Arg Arg Ala Pro Ser Arg Arg
      420      425      430
His Gly Val Arg Ala Lys Val Gln Pro Gln Pro Arg Lys Lys Glu Met
      435      440      445
Glu Met Arg Gln Leu Gln Arg Gly Pro Ala *
450      455      458

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<210> 1642
<211> 144
<212> PRT
<213> Homo sapiens

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      <400> 1642
Met Ala Arg Cys Thr Leu Thr Leu Leu Lys Thr Met Leu Thr Glu Leu
  1      5      10      15
Leu Arg Gly Gly Ser Phe Glu Phe Lys Asp Met Arg Val Pro Ser Ala
      20      25      30

```

```

Leu Val Thr Leu His Met Leu Leu Cys Ser Ile Pro Leu Ser Gly Arg
   35           40           45
Leu Asp Ser Asp Glu Gln Lys Ile Gln Asn Asp Ile Ile Asp Ile Leu
   50           55           60
Leu Thr Phe Thr Gln Gly Val Asn Glu Lys Leu Thr Ile Ser Glu Glu
   65           70           75           80
Thr Leu Ala Asn Asn Thr Trp Ser Leu Met Leu Lys Glu Val Leu Ser
           85           90           95
Ser Ile Leu Lys Val Pro Glu Gly Phe Phe Ser Gly Leu Ile Leu Leu
           100           105           110
Ser Glu Leu Leu Pro Leu Pro Leu Pro Met Gln Thr Thr Gln Val Ser
           115           120           125
Leu Pro Tyr Asn Met His Leu Ile Asn Asp Cys Ser Asn Thr Phe *
   130           135           140           143

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<210> 1643
<211> 70
<212> PRT
<213> Homo sapiens

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```

<400> 1643
Met Gly Arg Arg Trp Leu Phe Leu Ile Ala Cys Leu Arg Ser Ala Ser
  1           5           10           15
Ile Leu Ala Trp Ala Thr Trp Arg Asn Pro Val Ser Thr Lys Asn Lys
           20           25           30
Lys Leu Ala Ser His Asp Gly Pro His Leu Ala Val Pro Ala Ile Arg
           35           40           45
Glu Ala Glu Ala Gly Arg Trp Leu Lys Pro Arg Arg Arg Arg Leu Gln
   50           55           60
Arg Pro Lys Ile Ala Arg
   65           70

```

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<210> 1644
<211> 82
<212> PRT
<213> Homo sapiens

```

```

<400> 1644
Met Gly Met Gly Thr Leu Ile Ile Met Asn Val Trp Val Leu Phe Ile
  1           5           10           15
Pro Thr Arg Leu Arg Ile Asp Gln Gln Pro Val His Ile Lys Pro Ser
           20           25           30
Met Arg Val Leu Asp Lys Trp Val Ser Ala Phe Val His Lys Gly Phe
           35           40           45
Thr Trp Gly Thr Ser Glu Arg Ile Asn Thr Gly Ser Ser Ser Asp Ile
           50           55           60
Thr Leu Gly Ile Leu Asn Lys Cys Gly Trp Ala Val Phe Cys Ala Ala
   65           70           75           80
Pro *
   81

```

<210> 1645
 <211> 256
 <212> PRT
 <213> Homo sapiens

<400> 1645
 Met Ala Ala Leu Thr Val Thr Leu Met Val Leu Ser Ser Pro Leu Ala
 1 5 10 15
 Leu Ala Gly Asp Thr Gln Pro Arg Phe Leu Trp Gln Gly Lys Tyr Lys
 20 25 30
 Cys His Phe Phe Asn Gly Thr Glu Arg Val Gln Phe Leu Glu Arg Leu
 35 40 45
 Phe Tyr Asn Gln Glu Glu Phe Val Arg Phe Asp Ser Asp Val Gly Glu
 50 55 60
 Tyr Arg Ala Val Thr Glu Leu Gly Arg Pro Val Ala Glu Ser Trp Asn
 65 70 75 80
 Ser Gln Lys Asp Ile Leu Glu Asp Arg Arg Gly Gln Val Asp Thr Val
 85 90 95
 Cys Arg His Asn Tyr Gly Val Gly Glu Ser Phe Thr Val Gln Arg Arg
 100 105 110
 Val His Pro Glu Val Thr Val Tyr Pro Ala Lys Thr Gln Pro Leu Gln
 115 120 125
 His His Asn Leu Leu Val Cys Ser Val Ser Gly Phe Tyr Pro Gly Ser
 130 135 140
 Ile Glu Val Arg Trp Phe Arg Asn Gly Gln Glu Lys Ala Gly Val
 145 150 155 160
 Val Ser Thr Gly Leu Ile Gln Asn Gly Asp Trp Thr Phe Gln Thr Leu
 165 170 175
 Val Met Leu Glu Thr Val Pro Arg Ser Gly Glu Val Tyr Thr Cys Gln
 180 185 190
 Val Glu His Pro Ser Val Met Ser Pro Leu Thr Val Glu Trp Arg Ala
 195 200 205
 Arg Ser Glu Ser Ala Gln Ser Lys Met Leu Ser Gly Val Gly Gly Phe
 210 215 220
 Val Leu Gly Leu Leu Phe Leu Gly Ala Gly Leu Phe Ile Tyr Phe Arg
 225 230 235 240
 Asn Gln Lys Gly His Ser Gly Leu Gln Pro Thr Gly Phe Leu Ser *
 245 250 255

<210> 1646
 <211> 263
 <212> PRT
 <213> Homo sapiens

<400> 1646
 Met Val Ala Trp Arg Ser Ala Phe Leu Val Cys Leu Ala Phe Ser Leu
 1 5 10 15
 Ala Thr Leu Val Gln Arg Gly Ser Gly Asp Phe Asp Asp Phe Asn Leu
 20 25 30
 Glu Asp Ala Val Lys Glu Thr Ser Ser Val Lys Gln Pro Trp Asp His
 35 40 45
 Thr Thr Thr Thr Thr Thr Asn Arg Pro Gly Thr Thr Arg Ala Pro Ala
 50 55 60
 Lys Pro Pro Gly Ser Gly Leu Asp Leu Ala Asp Ala Leu Asp Asp Gln
 65 70 75 80

```

Asp Asp Gly Arg Arg Lys Pro Gly Ile Gly Gly Arg Glu Arg Trp Asn
      85          90          95
His Val Thr Thr Thr Thr Lys Arg Pro Val Thr Thr Arg Ala Pro Ala
      100          105          110
Asn Thr Leu Gly Asn Asp Phe Asp Leu Ala Asp Ala Leu Asp Asp Arg
      115          120          125
Asn Asp Arg Asp Asp Gly Arg Arg Lys Pro Ile Ala Gly Gly Gly Gly
      130          135          140
Phe Ser Asp Lys Asp Leu Glu Asp Ile Val Gly Gly Gly Glu Tyr Lys
      145          150          155          160
Pro Asp Lys Gly Lys Gly Asp Gly Arg Tyr Gly Ser Asn Asp Asp Pro
      165          170          175
Gly Ser Gly Met Val Ala Glu Pro Gly Thr Ile Ala Gly Val Ala Ser
      180          185          190
Ala Leu Ala Met Ala Leu Ile Gly Ala Val Ser Ser Tyr Ile Ser Tyr
      195          200          205
Gln Gln Lys Lys Phe Cys Phe Ser Ile Gln Gln Gly Leu Asn Ala Asp
      210          215          220
Tyr Val Lys Gly Glu Asn Leu Glu Ala Val Val Cys Glu Glu Pro Gln
      225          230          235          240
Val Lys Tyr Ser Thr Leu His Thr Gln Ser Ala Glu Pro Pro Pro Pro
      245          250          255
Pro Glu Pro Ala Arg Ile *
      260          262

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<210> 1647
<211> 74
<212> PRT
<213> Homo sapiens

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```

<400> 1647
Met Tyr Leu Leu Cys Trp Leu Tyr Ile Met Gly Val Leu Gly Ala Ser
  1          5          10          15
Cys Asn Trp His Val Gly Val Pro Phe Pro Gly Thr His Trp Pro Arg
      20          25          30
Ser Gln Asn His Leu Leu Trp Val Tyr Asn His Leu Asn Glu Leu Pro
      35          40          45
Val Pro Ala Gly Arg Ser Ser Glu Gln Leu Tyr Leu Gly Tyr Thr Glu
      50          55          60
Lys Tyr Gly Arg Arg Glu Arg Lys Ala *
      65          70          73

```

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<210> 1648
<211> 58
<212> PRT
<213> Homo sapiens

```

```

<400> 1648
Met Gly Leu Cys Gly Met Trp Val Leu Thr Ala Phe Leu Cys Glu Pro
  1          5          10          15
Met Gly Phe Arg His Arg Val Cys Pro His Arg Cys Val Arg Gly Ser
      20          25          30
Gly Arg Gly Ser Gly Cys Glu Cys Val Thr Met Trp Pro Cys Gly Ile

```

35 40 45
 Asn Ala Met Thr Gly Gly Phe Trp Val *
 50 55 57

<210> 1649
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 1649
 Met Gly Val Leu Leu Val Ser Met Val Val Leu Phe Ile Phe Ala Ile
 1 5 10 15
 Leu Cys Ile Phe Ile Arg Asn Arg Ile Leu Glu Ile Val Tyr Ala Ser
 20 25 30
 Leu Gly Ala Leu Leu Phe Thr Cys Phe Leu Ala Val Asp Thr Gln Leu
 35 40 45
 Leu Leu Gly Asn Lys Gln Leu Ser Leu Ser Pro Glu Glu Tyr Val Phe
 50 55 60
 Ala Ala Leu Asn Leu Tyr Thr Asp Ile Ile Asn Ile Phe Leu Tyr Ile
 65 70 75 80
 Leu Thr Ile Ile Gly Arg Ala Lys Glu *
 85 89

<210> 1650
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 1650
 Met Ala Leu Gly Val Pro Ile Ser Val Tyr Leu Leu Phe Asn Ala Met
 1 5 10 15
 Thr Ala Leu Thr Glu Glu Ala Ala Val Thr Val Thr Pro Pro Ile Thr
 20 25 30
 Ala Gln Gln Gly Asn Trp Thr Val Asn Lys Thr Glu Ala Asp Asn Ile
 35 40 45
 Glu Gly Pro Ile Ala Leu Lys Phe Ser His Leu Cys Leu Glu Asp His
 50 55 60
 Asn Ser Tyr Cys Ile Asn Gly Ala Cys Ala Phe His His Glu Leu Glu
 65 70 75 80
 Lys Ala Ile Cys Arg Cys Phe Thr Gly Tyr Thr Gly Glu Arg Cys Leu
 85 90 95
 Lys Leu Lys Ser Pro Tyr Asn Val Cys Ser Gly Glu Arg Arg Pro Leu
 100 105 110 112
 *

<210> 1651
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1651

```

Met Phe Ile Lys Phe Leu Arg Ile Leu Ile Ser Leu Gln Cys Ser Ser
 1           5           10           15
Phe Lys Phe Thr Val Thr Ala Lys Val Leu Phe Met Thr Tyr Lys Lys
           20           25           30
Arg Ala Gln Ser Asp Phe Phe Leu Val Phe Val Asp Arg Glu Arg Ser
      35           40           45
Pro *
 49

```

<210> 1652

<211> 121

<212> PRT

<213> Homo sapiens

<400> 1652

```

Met Ser Arg Ala Gly Met Leu Gly Val Val Cys Ala Leu Leu Val Trp
 1           5           10           15
Ala Tyr Leu Ala Val Gly Lys Leu Val Val Arg Met Thr Phe Thr Glu
           20           25           30
Leu Cys Thr His His Pro Trp Ser Leu Arg Cys Glu Ser Phe Cys Arg
      35           40           45
Ser Arg Val Thr Ala Cys Leu Pro Ala Pro Ala Pro Trp Leu Arg Pro
      50           55           60
Phe Leu Cys Pro Met Leu Phe Ser Asp Arg Asn Pro Val Glu Cys His
      65           70           75           80
Leu Phe Gly Glu Ala Val Ser Asp Pro Val Cys Lys Gly Leu Leu Pro
           85           90           95
His Tyr Phe Trp His Pro Thr Phe Phe Pro Val Lys Ala Asn Cys Leu
           100           105           110
Val Ser Phe Cys Pro Thr Thr Val *
      115           120

```

<210> 1653

<211> 111

<212> PRT

<213> Homo sapiens

<400> 1653

```

Met Trp Ser Leu Trp Ile Trp Val Asp Gln His Gln Ala Arg Leu Ile
 1           5           10           15
Pro Ser Pro Gln Val Leu Leu Leu Leu Arg Glu Thr Pro Ser Thr
           20           25           30
Ala Ala Ala Val Ala Gly Trp Leu Val Val Ala Ser Met Ala Leu Leu
           35           40           45
Gln Leu His Ala Val Gly Gly Val Ala Leu Thr Ser His Pro Phe
      50           55           60
Met Trp Ala Thr Gly Glu Glu Leu Arg Lys Pro Pro Trp Gln Gly Ser
      65           70           75           80
Ala Gly Ser Ala Ser Gly Val Glu Glu Leu Thr Gly Lys His Ser Cys
           85           90           95
Pro Gly Pro Glu Glu Pro Ala Thr Val Gln Lys Ala Pro Ala *

```

100

105

110

<210> 1654
 <211> 150
 <212> PRT
 <213> Homo sapiens

<400> 1654
 Met Trp Ile Cys Arg Val Lys Gln Ala Trp Leu Pro Pro Leu Leu Ser
 1 5 10 15
 Pro Leu Gly Pro Pro Thr Pro Trp Asp Pro Phe Tyr Ala Ala Pro Ser
 20 25 30
 Pro Pro Val Trp Val Gly Ser Gly Tyr Trp Tyr Arg Gly Leu Leu Ser
 35 40 45
 Pro Pro Asp Gly Gly Gln Gly Ser Phe Pro Pro His Leu Cys Pro Gln
 50 55 60
 Cys Pro Val Gln Ala Gln Ala Gln Ile Gly Pro Tyr Phe Arg Glu Leu
 65 70 75 80
 Gly Glu Pro Pro Ser Glu Thr Lys Trp Tyr Leu Asn Ser His Ser His
 85 90 95
 His Arg Ala Ala Gly Thr Gln Arg Arg Leu Arg Cys Leu Gln His Leu
 100 105 110
 Leu Gly Gly Gly Gly Pro Gly Ile Gly Ser Glu Ser Pro Asn Glu Gly
 115 120 125
 Pro Gly Gln Val Thr His Ala Cys Asn Leu Ser Thr Leu Gly Gly Lys
 130 135 140
 Asp Val Arg Ile Thr *
 145 149

<210> 1655
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1655
 Met Ser Arg Asn Leu Arg Thr Ala Leu Ile Phe Gly Gly Phe Ile Ser
 1 5 10 15
 Leu Ile Gly Ala Ala Phe Tyr Pro Ile Tyr Phe Arg Pro Leu Met Arg
 20 25 30
 Leu Glu Glu Tyr Lys Lys Glu Gln Ala Ile Asn Arg Ala Gly Ile Val
 35 40 45
 Gln Glu Asp Val Gln Pro Pro Gly Leu Lys Val Trp Ser Asp Pro Phe
 50 55 60
 Gly Arg Lys *
 65 67

<210> 1656
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1656

```

Met His Lys Tyr Leu Cys Val Phe Glu Tyr Leu Ser Asn Leu Ser Lys
 1              5              10              15
Cys Met Arg Leu Tyr Leu Ile Leu Leu Ala Ser Ile Cys Met Tyr Leu
              20              25              30
Cys Val Ala Arg Arg Val Phe Leu Phe Ala Ser Val Ser Thr Gln Gly
              35              40              45
Lys Ser Leu Met Tyr Ser Thr Gln Lys Val Val Lys *
 50              55              60

```

<210> 1657

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1657

```

Met Asn Trp Gln His Ser Thr Met Tyr Leu Phe Phe Ala Val Ser Gly
 1              5              10              15
Ile Val Asp Met Leu Thr Tyr Leu Val Ser His Val Pro Leu Gly Val
              20              25              30
Asp Arg Leu Val Met Gly Cys Gly Lys Tyr Ser Trp Lys Val Ser Ser
              35              40              45
Ser Thr Thr Thr Ser Thr Thr Gly Leu Arg Trp Thr Ser Thr Ser Thr
              50              55              60
His Ser Cys Cys Met Leu Cys Ser Glu Gly Val Leu Val Ser Pro *
 65              70              75              79

```

<210> 1658

<211> 160

<212> PRT

<213> Homo sapiens

<400> 1658

```

Met Ala Phe Leu Leu Tyr His Leu Val Tyr His Ile Pro Pro Met Ala
 1              5              10              15
Pro Val Ser Phe Val Phe Glu Thr Lys Ser Arg Ser Ala Ala Gln Ala
              20              25              30
Gly Val Gln Trp His Asp Pro Gly Ser Pro Gln Pro Leu Pro Pro Arg
              35              40              45
Phe Lys Arg Phe Ser Cys His Gly Leu Asn Ile Lys Phe Ala Phe Phe
              50              55              60
Ser His Leu Lys Glu Leu His Leu Asp Ser Gly His Cys Phe Ile Phe
 65              70              75              80
Ile Arg Leu Val Lys Gly Ala Val Cys Leu Ile His Val Gln Ile Arg
              85              90              95
Ile Pro Ser Ala Asp Glu Asp Ile Thr Ile Leu Phe Phe Ile Val Ser
              100              105              110
Lys His Phe Leu Glu Ser Val Phe Lys Met Leu Gln Trp Ser Gln Met
              115              120              125
Thr Leu Ala Thr Val Lys Thr Thr Phe Ile Gly Leu Asn Glu Phe Ile
 130              135              140
Cys Ser Pro Ser Thr Leu Pro Ser Gly Lys Lys Asn Gly Leu Ile *

```

145

150

155

159

<210> 1659
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 1659
 Met Trp Arg Leu Pro His Ser Gln Phe Ile His Ile Val Ile Leu Pro
 1 5 10 15
 Leu Lys Val Phe Leu Phe Leu Phe Cys Phe Leu Arg Trp Ser Phe Ser
 20 25 30
 Leu Val Ala Gln Ala Gly Val Gln Trp Arg Asp Leu Gly Pro Leu Gln
 35 40 45
 Pro Pro Pro Pro Arg Leu Lys Arg Phe Phe Cys Leu Ser Leu Pro Ser
 50 55 60
 Ser Trp Asp Tyr Arg His Ser Pro Pro His Pro Ala Asn Phe Tyr Thr
 65 70 75 80
 Phe Gly Arg Asp Gly Val Ser Pro Cys *
 85 89

<210> 1660
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1660
 Met Cys Ala His Leu Val Cys Val Lys Trp Cys Leu Val Ile Leu Ile
 1 5 10 15
 Cys Ile Phe Gln Asn Thr Asn Glu Val Glu Gln Leu Ile Leu Cys Val
 20 25 30
 Leu Leu Ile Pro Leu Ser Ser Ser Met Thr Asp Leu Phe Leu Ser Leu
 35 40 45
 Cys Val Cys Val Phe Cys Tyr *
 50 55

<210> 1661
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 1661
 Met Leu Gly Met Ile Ser Met Leu Leu Asn Ala Leu Lys Leu Leu Val
 1 5 10 15
 Tyr Leu Thr Glu Cys Cys Met Ala Leu Glu Glu Arg Val His Ser Val
 20 25 30
 Leu Ile Gly Trp Ser Val Ser Phe Lys Arg Ile Gln Arg Gln Leu Asn
 35 40 45
 Gln Val Gly Leu Ile Glu Phe Lys Met Val Leu Cys Ser Asn Thr
 50 55 60

Asp Gly Thr Glu Gly His Tyr Pro Lys *
 65 70 73

<210> 1662
 <211> 271
 <212> PRT
 <213> Homo sapiens

<400> 1662
 Met Gly Leu Gly Gln Pro Gln Ala Trp Leu Leu Gly Leu Pro Thr Ala
 1 5 10 15
 Val Val Tyr Gly Ser Leu Ala Leu Phe Thr Thr Ile Leu His Asn Val
 20 25 30
 Phe Leu Leu Tyr Tyr Val Asp Thr Phe Val Ser Val Tyr Lys Ile Asn
 35 40 45
 Lys Met Ala Phe Trp Val Gly Glu Thr Val Phe Leu Leu Trp Asn Ser
 50 55 60
 Leu Asn Asp Pro Leu Phe Gly Trp Leu Ser Asp Arg Gln Phe Leu Ser
 65 70 75 80
 Ser Gln Pro Arg Ser Gly Ala Gly Leu Ser Ser Arg Ala Val Val Leu
 85 90 95
 Ala Arg Val Gln Ala Leu Gly Trp His Gly Pro Leu Leu Ala Leu Ser
 100 105 110
 Phe Leu Ala Phe Trp Val Pro Trp Ala Pro Ala Gly Leu Gln Phe Leu
 115 120 125
 Leu Cys Leu Cys Leu Tyr Asp Gly Phe Leu Thr Leu Val Asp Leu His
 130 135 140
 His His Ala Leu Leu Ala Asp Leu Ala Leu Ser Ala His Asp Arg Thr
 145 150 155 160
 His Leu Asn Phe Tyr Cys Ser Leu Phe Ser Ala Ala Gly Ser Leu Ser
 165 170 175
 Val Phe Ala Ser Tyr Ala Phe Trp Asn Lys Glu Asp Phe Ser Ser Phe
 180 185 190
 Arg Ala Phe Cys Val Thr Leu Ala Val Ser Ser Gly Leu Gly Phe Leu
 195 200 205
 Gly Ala Thr Gln Leu Leu Arg Arg Val Glu Ala Ala Arg Lys Asp
 210 215 220
 Pro Gly Cys Ser Gly Leu Val Val Asp Ser Gly Leu Cys Gly Glu Glu
 225 230 235 240
 Leu Leu Val Gly Ser Glu Glu Ala Asp Ser Ile Thr Leu Gly Arg Tyr
 245 250 255
 Leu Arg Gln Leu Ala Arg His Arg Asn Phe Leu Cys Phe Ser *
 260 265 270

<210> 1663
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1663
 Met Pro His Ile Gln Thr Leu Leu Arg Thr Leu Phe Ala Ser His Leu
 1 5 10 15
 Leu Val Ser Leu Trp Gln Ser Glu Pro Met Ala Lys Pro Arg Met Arg

20 25 30
 Lys Tyr Asn Thr Ser Ser Glu Tyr Leu Ser Glu Leu Asp Thr Glu Ala
 35 40 45
 Ser Arg Val Ser *
 50 52

<210> 1664
 <211> 271
 <212> PRT
 <213> Homo sapiens

<400> 1664
 Met Gly Leu Gly Gln Pro Gln Ala Trp Leu Leu Gly Leu Pro Thr Ala
 1 5 10 15
 Val Val Tyr Gly Ser Leu Ala Leu Phe Thr Thr Ile Leu His Asn Val
 20 25 30
 Phe Leu Leu Tyr Tyr Val Asp Thr Phe Val Ser Val Tyr Lys Ile Asn
 35 40 45
 Lys Met Ala Phe Trp Val Gly Glu Thr Val Phe Leu Leu Trp Asn Ser
 50 55 60
 Leu Asn Asp Pro Leu Phe Gly Trp Leu Ser Asp Arg Gln Phe Leu Ser
 65 70 75 80
 Ser Gln Pro Arg Ser Gly Ala Gly Leu Ser Ser Arg Ala Val Val Leu
 85 90 95
 Ala Arg Val Gln Ala Leu Gly Trp His Gly Pro Leu Leu Ala Leu Ser
 100 105 110
 Phe Leu Ala Phe Trp Val Pro Trp Ala Pro Ala Gly Leu Gln Phe Leu
 115 120 125
 Leu Cys Leu Cys Leu Tyr Asp Gly Phe Leu Thr Leu Val Asp Leu His
 130 135 140
 His His Ala Leu Leu Ala Asp Leu Ala Leu Ser Ala His Asp Arg Thr
 145 150 155 160
 His Leu Asn Phe Tyr Cys Ser Leu Phe Ser Ala Ala Gly Ser Leu Ser
 165 170 175
 Val Phe Ala Ser Tyr Ala Phe Trp Asn Lys Glu Asp Phe Ser Ser Phe
 180 185 190
 Arg Ala Phe Cys Val Thr Leu Ala Val Ser Ser Gly Leu Gly Phe Leu
 195 200 205
 Gly Ala Thr Gln Leu Leu Arg Arg Arg Val Glu Ala Ala Arg Lys Asp
 210 215 220
 Pro Gly Cys Ser Gly Leu Val Val Asp Ser Gly Leu Cys Gly Glu Glu
 225 230 235 240
 Leu Leu Val Gly Ser Glu Glu Ala Asp Ser Ile Thr Leu Gly Arg Tyr
 245 250 255
 Leu Arg Gln Leu Ala Arg His Arg Asn Phe Leu Cys Phe Ser *
 260 265 270

<210> 1665
 <211> 284
 <212> PRT
 <213> Homo sapiens

<400> 1665

```

Met Asp Glu Lys Ser Asn Lys Leu Leu Leu Ala Leu Val Met Leu Phe
 1          5          10          15
Leu Phe Ala Val Ile Val Leu Gln Tyr Val Cys Pro Gly Thr Glu Cys
          20          25          30
Gln Leu Leu Arg Leu Gln Ala Phe Ser Ser Pro Val Pro Asp Pro Tyr
 35          40          45
Arg Ser Glu Asp Glu Ser Ser Ala Arg Phe Val Pro Arg Tyr Asn Phe
 50          55          60
Thr Arg Gly Asp Leu Leu Arg Lys Val Asp Phe Asp Ile Lys Gly Asp
 65          70          75          80
Asp Leu Ile Val Phe Leu His Ile Gln Lys Thr Gly Gly Thr Thr Phe
          85          90          95
Gly Arg His Leu Val Arg Asn Ile Gln Leu Glu Gln Pro Cys Glu Cys
          100          105          110
Arg Val Gly Gln Lys Lys Cys Thr Cys His Arg Pro Gly Lys Arg Glu
          115          120          125
Thr Trp Leu Phe Ser Arg Phe Ser Thr Gly Trp Ser Cys Gly Leu His
          130          135          140
Ala Asp Trp Thr Glu Leu Thr Ser Cys Val Pro Ser Val Gly Asp Gly
          145          150          155          160
Lys Arg Asp Ala Arg Leu Arg Pro Ser Arg Trp Arg Ile Phe His Ile
          165          170          175
Leu Tyr Ala Ala Cys Thr Asp Ile Arg Gly Ser Pro Asn Thr Asn Ala
          180          185          190
Gly Ala Asn Ser Pro Ser Phe Thr Lys Thr Arg Asn Thr Ser Lys Ser
          195          200          205
Trp Lys Asn Phe His Tyr Ile Thr Ile Leu Gln Asp Pro Gly Ala Arg
          210          215          220
Ser Leu Ser Glu Trp Arg Pro Val Leu Lys Arg Gly Thr Leu Glu Gly
          225          230          235          240
Leu Leu Ala Cys Trp Pro Trp Lys Ala Pro Pro Pro Leu Lys Lys Leu
          245          250          255
Ser Thr Trp Tyr Pro Gly Glu Glu Leu Val Trp Leu Ala Pro Leu Gln
          260          265          270
Lys Ile Ile Gly Leu Ala Leu Leu Ile Tyr Pro *
          275          280          283

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<210> 1666
<211> 67
<212> PRT
<213> Homo sapiens

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<400> 1666
Met Thr Leu Val Leu Phe Leu Val Leu Ala Leu Met Ile Thr Ile Cys
 1          5          10          15
Ile Leu Ser Tyr His Ser His Leu Leu Ile Asn Ser Asn Leu Ile Pro
          20          25          30
Val Lys Tyr Arg Asn Phe Pro Ser Ile Leu Leu His Phe Leu His Leu
          35          40          45
Trp Leu Ser Phe Cys His Ile Ser His Met His Ile Cys His Asn Leu
          50          55          60
Leu Ile *
          65          66

```

<210> 1667
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 1667
 Met Asn Thr His Trp Asn Ile Leu Pro Val Glu Arg Ser Cys Pro Leu
 1 5 10 15
 Trp Ile Ser Ser Glu Leu Ser Tyr Cys Ser Ile Lys Leu Leu Phe Ile
 20 25 30
 Leu Leu Thr Leu His Leu Pro Ala Tyr Leu Ile Leu Pro Gly His Lys
 35 40 45
 Ile Arg Thr Gln Asp Leu Pro Asn Glu Ala Asn Arg Ala Val Thr Gln
 50 55 60
 Thr Gly Leu Arg His Ala Leu Tyr Gln Ser Ile Ser Cys Trp *
 65 70 75 78

<210> 1668
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1668
 Met Trp Gly Leu Leu Ile Pro Cys Ile Leu Gly Cys Met Lys Leu Pro
 1 5 10 15
 His Asn Leu Leu Met Leu Phe Ser Leu Glu Thr Phe Leu Thr Leu Arg
 20 25 30
 Phe Ile Leu Asp Ser Phe Tyr Ser Tyr Val Phe Lys Pro Thr Asn Lys
 35 40 45
 Arg Phe Cys Asn Ile *
 50 53

<210> 1669
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 1669
 Met Met Ala Gly Ile Arg Ala Leu Phe Met Tyr Leu Trp Leu Gln Leu
 1 5 10 15
 Asp Trp Val Ser Arg Gly Glu Ser Val Gly Leu His Leu Pro Thr Leu
 20 25 30
 Ser Val Gln Glu Gly Asp Asn Ser Ile Ile Asn Cys Ala Tyr Ser Asn
 35 40 45
 Ser Ala Ser Asp Tyr Phe Ile Trp Tyr Lys Gln Glu Ser Gly Lys Gly
 50 55 60
 Pro Gln Phe Ile Ile Asp Ile Arg Ser Asn Met Asp Lys Arg Gln Gly
 65 70 75 80
 Gln Arg Val Thr Val Leu Leu Asn Lys Thr Val Lys His Leu Ser Leu
 85 90 95
 Gln Ile Ala Ala Thr Gln Pro Gly Asp Ser Ala Val Tyr Phe Cys Ala
 100 105 110

Glu Ile Pro Glu Gln Arg *
 115 118

<210> 1670
 <211> 116
 <212> PRT
 <213> Homo sapiens

<400> 1670
 Met Cys Leu Leu Cys Cys Glu Cys Leu Phe His Leu Trp Lys Arg Ile
 1 5 10 15
 Asn Trp Trp Gln Gly Phe Cys Ser Phe Tyr Leu Leu Leu Trp Val Gly
 20 25 30
 Leu Leu Ser Phe Pro Pro Asp Pro Pro Trp Lys Ser Phe Thr Pro Ala
 35 40 45
 Ile Leu Phe Leu Ala Trp Gly Thr Gly Ser Ser Pro Gly Arg His Arg
 50 55 60
 Phe Ser Leu Pro Thr Asp Arg Arg Pro Ser Ala His Ser Pro Phe Leu
 65 70 75 80
 Ser Thr Leu Gln His Ser Ile Arg Thr Leu Phe His Ser Pro Ile Arg
 85 90 95
 Ser Ser Arg Phe Ala Phe Val Ser Ser Leu His Ser Tyr Thr Ser Ile
 100 105 110
 Pro Ser Leu Pro
 115 116

<210> 1671
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 1671
 Met Ser His Cys Gly Leu Leu Phe Leu Val Val Thr Trp Leu Leu Ser
 1 5 10 15
 Phe Ile Phe Leu Val Cys Lys Met Arg Ile Thr Phe Leu Phe Cys Leu
 20 25 30
 Leu Thr Val Asp Met Lys Pro Asn Lys Val Leu Tyr Met Lys Cys Phe
 35 40 45
 Lys Cys Ile Ile Leu Leu Ser Cys Tyr Pro Leu Lys Phe Leu Val Ile
 50 55 60
 Arg Asn Phe Glu Ile *
 65 69

<210> 1672
 <211> 263
 <212> PRT
 <213> Homo sapiens

<400> 1672
 Met Arg Val Leu Cys Ala Phe Pro Glu Ala Met Pro Ser Ser Asn Ser

```

      1           5           10           15
Arg Pro Pro Ala Cys Leu Ala Pro Gly Ala Leu Tyr Leu Ala Leu Leu
      20           25           30
Leu His Leu Ser Leu Ser Ser Gln Ala Gly Asp Arg Arg Pro Leu Pro
      35           40           45
Val Asp Arg Ala Ala Gly Leu Lys Glu Lys Thr Leu Ile Leu Leu Asp
      50           55           60
Val Ser Thr Lys Asn Pro Val Arg Thr Val Asn Glu Asn Phe Leu Ser
      65           70           75           80
Leu Gln Leu Asp Pro Ser Ile Ile His Asp Gly Trp Leu Asp Phe Leu
      85           90           95
Ser Ser Lys Arg Leu Val Thr Leu Ala Arg Gly Leu Ser Pro Ala Phe
      100          105          110
Leu Arg Phe Gly Gly Lys Arg Thr Asp Phe Leu Gln Phe Gln Asn Leu
      115          120          125
Arg Asn Pro Ala Lys Ser Arg Gly Gly Pro Gly Pro Asp Tyr Tyr Leu
      130          135          140
Lys Asn Tyr Glu Asp Asp Ile Val Arg Ser Asp Val Ala Leu Asp Lys
      145          150          155          160
Gln Lys Gly Cys Lys Ile Ala Gln His Pro Asp Gly Met Leu Glu Pro
      165          170          175
Pro Arg Glu Lys Ala Ala Gln Met His Leu Val Leu Lys Glu Gln
      180          185          190
Phe Ser Asn Thr Tyr Ser Asn Leu Ile Leu Thr Glu Pro Asn Asn Tyr
      195          200          205
Arg Thr Met His Gly Arg Ala Val Asn Gly Ser Gln Leu Gly Lys Asp
      210          215          220
Tyr Ile Gln Leu Lys Ser Leu Leu Gln Pro Ile Arg Ile Tyr Ser Arg
      225          230          235          240
Ala Ser Leu Tyr Gly Pro Asn Ile Val Arg Pro Arg Lys Asn Val Ile
      245          250          255
Ala Leu Leu Asp Gly Leu *
      260          262

```

<210> 1673
 <211> 156
 <212> PRT
 <213> Homo sapiens

```

      <400> 1673
Met Lys Trp Lys Thr Gly Val Ala Ile Phe Val Val Val Val Val Tyr
      1           5           10           15
Leu Val Thr Gly Gly Leu Val Phe Arg Ala Leu Glu Gln Pro Phe Glu
      20           25           30
Ser Ser Gln Lys Asn Thr Ile Ala Leu Glu Lys Ala Glu Phe Leu Arg
      35           40           45
Asp His Val Cys Val Ser Pro Gln Glu Leu Glu Thr Leu Ile Gln His
      50           55           60
Ala Leu Asp Ala Asp Asn Ala Gly Val Ser Pro Ile Gly Asn Ser Ser
      65           70           75           80
Asn Asn Ser Ser His Trp Asp Leu Gly Ser Ala Phe Phe Phe Ala Gly
      85           90           95
Thr Val Ile Thr Thr Ile Gly Tyr Gly Asn Ile Ala Pro Ser Thr Glu
      100          105          110
Gly Gly Lys Ile Phe Cys Ile Leu Tyr Ala Ile Phe Gly Phe Pro Leu
      115          120          125

```


Phe Gly Phe Leu Leu Ala Gly Ile Glu Asp Gln Leu Gly Thr Ile Phe
 130 135 140
 Gly Lys Ser Ile Ala Arg Val Glu Lys Val Phe *
 145 150 155

<210> 1674
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1674
 Met Cys Cys Val Ile Cys Ser Lys Gln Tyr Val Leu Leu Ser Ile Leu
 1 5 10 15
 Leu Cys Leu Leu Ala Ser Gly Ser Val Asp Phe Phe Leu Leu Pro His
 20 25 30
 Ser Val Leu Ala Asp Asp Asp Gly Ile Lys Val Val Lys Val Thr Phe
 35 40 45
 Asn Lys Gln Asp Ser Leu Val Ile Leu Thr Ile Met Val Ser Leu Thr
 50 55 60
 Val Ser Phe Pro Gly Leu Cys Thr Cys Gln Ala Gly Thr Gln Asp Thr
 65 70 75 80
 Tyr Thr *
 82

<210> 1675
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1675
 Met Val His Cys Leu Ile Cys Met Trp Thr Cys Trp Pro Thr Gly Ala
 1 5 10 15
 Ile Leu His Arg Val Cys Arg Thr His Trp Pro Arg Gly Val Ser His
 20 25 30
 Thr His Val Trp Met His Trp Pro Thr Cys Val Val Ser Arg Leu Phe
 35 40 45
 Val Asp Val Leu Gly *
 50 53

<210> 1676
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 1676
 Met Gly Val Met Ala Met Leu Met Leu Pro Leu Leu Leu Gly Ile
 1 5 10 15
 Ser Gly Leu Leu Phe Ile Tyr Gln Glu Val Ser Arg Leu Trp Ser Lys
 20 25 30
 Ser Ala Val Gln Asn Lys Val Val Val Ile Thr Asp Ala Ile Ser Gly

```

      35      40      45
Leu Gly Lys Glu Cys Ala Arg Val Phe His Thr Gly Gly Ala Arg Leu
      50      55      60
Val Leu Cys Gly Lys Asn Trp Glu Arg Leu Glu Asn Leu Tyr Asp Ala
      65      70      75      80
Leu Ile Ser Val Ala Asp Pro Ser Lys Thr Phe Thr Pro Lys Leu Val
      85      90      95
Leu Leu Asp Leu Ser Asp Ile Ser Cys Val Pro His Val Ala Lys Glu
      100      105      110
Ala Leu Asp Cys Tyr Gly *
      115      118

```

<210> 1677
 <211> 49
 <212> PRT
 <213> Homo sapiens

```

      <400> 1677
Met Arg Tyr Lys Cys Val Leu Ser Lys Ile Leu Trp Phe Cys Pro Trp
      1      5      10      15
Lys Tyr Val Trp Lys Asn Ser Phe Phe Asn Leu Glu Gly Met Phe Met
      20      25      30
Phe Ile Glu Val Thr Cys Arg His Tyr Ser Thr Cys Gly Ile Phe Lys
      35      40      45      48
*

```

<210> 1678
 <211> 127
 <212> PRT
 <213> Homo sapiens

```

      <400> 1678
Met Gln Thr Lys Gly Gly Gln Thr Trp Ala Arg Arg Ala Leu Leu Leu
      1      5      10      15
Gly Ile Leu Trp Ala Thr Ala His Leu Pro Leu Ser Gly Thr Ser Leu
      20      25      30
Pro Gln Arg Leu Pro Arg Ala Thr Gly Asn Ser Thr Gln Cys Val Ile
      35      40      45
Ser Pro Ser Ser Glu Phe Pro Glu Gly Phe Phe Thr Arg Gln Glu Arg
      50      55      60
Arg Asp Gly Gly Ile Ile Ile Tyr Phe Leu Ile Ile Val Tyr Met Phe
      65      70      75      80
Met Ala Ile Ser Ile Val Cys Asp Glu Tyr Phe Leu Pro Ser Leu Glu
      85      90      95
Ile Ile Ser Glu Tyr Ile Gly Asn Lys Lys Glu Met Gln Val Leu Ile
      100      105      110
Pro Gly Arg Ile Val Ser Lys Leu Lys Lys Leu Gly Phe Lys *
      115      120      125 126

```

<210> 1679

<211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1679
 Met Ile Phe Phe Ile Lys Ala Pro Leu Tyr Leu Leu Gln Ser Met Met
 1 5 10 15
 Asp Cys Leu Tyr Ala Arg Arg Ile Pro Cys Ile Thr Asp Cys Ala Met
 20 25 30
 Ala Glu Ile Glu Lys Leu Gly Gln Lys Tyr Pro Val Ala Leu Arg Ile
 35 40 45
 Ala
 49

<210> 1680
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1680
 Met Val Tyr Glu Val Phe Ile Asn Lys Ala Asn Ile Leu Leu Leu
 1 5 10 15
 Phe Leu Arg Gln Ser Leu Ala Val Leu Pro Arg Leu Glu Cys Ser Gly
 20 25 30
 Ala Ile Ser Ala Arg Cys Asn Leu His Leu Arg Ile Pro Pro Asp Phe
 35 40 45
 His Arg Ser Thr Met Gly Gly Gly Gly
 50 55 58

<210> 1681
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1681
 Met Leu Ser Gly Trp Val Gln Cys Pro Leu Leu Gln Arg Val His Phe
 1 5 10 15
 Tyr Ala Phe Ser Val Gly Pro Phe His Arg Lys Ile Trp Gly Asp Val
 20 25 30
 Ser Phe Pro Leu Thr Phe Tyr Phe Lys Asn Leu Gln Thr Gln Lys Ser
 35 40 45 48
 *

<210> 1682
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 1682

```

Met Thr Gly Leu Phe Leu His His Asn Pro Gly Ile Leu Leu Ala Pro
 1           5           10           15
Ser Val Leu Asp Leu Leu Phe Pro Gly Ser His Ile Phe Ile Phe Ser
           20           25           30
Leu Phe Leu Ser Leu Cys Pro Cys Phe Gly Asp Thr Ile Leu Val Ala
           35           40           45
Pro Ser Asp Lys Val Tyr Lys Asp Thr Phe Ile Ile Lys Ile Tyr Pro
           50           55           60
Tyr Cys Ile Phe Glu Asn Phe Phe Thr Phe Leu Phe Thr *
65           70           75           77

```

<210> 1683

<211> 52

<212> PRT

<213> Homo sapiens

<400> 1683

```

Met Ser Leu Gly Ser Ile Asn His Phe Leu Phe Phe Ile Gln Leu Leu
 1           5           10           15
Val Leu Lys Asn Ser Tyr Cys Met Leu Leu Lys Met Lys Gln Asn Lys
           20           25           30
Lys Leu Lys Lys Ile Met Cys Leu Leu Phe Leu Met Leu Ser Ser Tyr
           35           40           45
His Leu Ile *
50 51

```

<210> 1684

<211> 165

<212> PRT

<213> Homo sapiens

<400> 1684

```

Met Pro Ala Pro Pro Leu Pro Gly Gly Trp Asn Thr Trp Gly Pro Ser
 1           5           10           15
Leu Ser Leu Pro Leu Leu Leu Leu Gly Ala Val Ala Met Ala Leu Gly
           20           25           30
Val Arg Pro Pro Gly Gln Val Gly Leu Ser Pro Ile Ala Thr Ala Ser
           35           40           45
Thr Val Gly Val Pro Arg Cys Leu Gln Thr Ala Phe Arg Gly Asp Ala
           50           55           60
Gly Trp His Ser Cys Ala Gln Gln Gly Ala Cys Val Ala Leu His Pro
65           70           75           80
Ser Glu Arg Arg Leu Gly Ile Ser Asp Glu Ala His Ser Arg Ser Arg
           85           90           95
Trp Gly Gly Glu Asp Ser Pro Ser Pro Leu Thr Gly Pro Pro Leu Ser
           100          105          110
Pro Ser Pro Pro Asp Cys Leu Ser Leu Pro Arg Leu Thr Pro Leu Arg
           115          120          125
Leu Pro Pro Pro Pro Phe Pro Phe Leu Gly Pro Ile Pro Ser Leu Pro
           130          135          140
Pro Pro Pro Ser Pro Pro Pro Gln Pro Pro Ala Thr Ala Pro Pro Pro
145          150          155          160

```

Ser Leu Arg Phe *
164

<210> 1685
<211> 153
<212> PRT
<213> Homo sapiens

<400> 1685
Met Gly Thr Ala Ala Leu Gly Pro Val Trp Ala Ala Leu Leu Leu Phe
1 5 10 15
Leu Leu Met Cys Glu Ile Pro Met Val Glu Leu Thr Phe Asp Arg Ala
20 25 30
Val Ala Ser Gly Cys Gln Arg Cys Cys Asp Ser Glu Asp Pro Leu Asp
35 40 45
Pro Ala His Val Ser Ser Ala Ser Ser Ser Gly Arg Pro His Ala Leu
50 55 60
Pro Glu Ile Arg Pro Tyr Ile Asn Ile Thr Ile Leu Lys Ala Gln Arg
65 70 75 80
Ala Gln His His Ala Glu Pro Glu Cys Asp Ala Gly Pro Gly Leu Arg
85 90 95
Gly Pro Arg Leu Gly Ala Ala Leu Gln Ala Pro Ala Arg Glu Arg His
100 105 110
Leu Gln Gln Arg Leu Arg His Leu His His Leu Gln Arg Pro Pro His
115 120 125
Gln Gly Arg Gly Arg Leu Arg Ala Ser Gly Pro Pro Ser Arg Leu Glu
130 135 140
Ser Ser Ala Asp Pro Ala Pro Ala *
145 150 152

<210> 1686
<211> 141
<212> PRT
<213> Homo sapiens

<400> 1686
Met Arg Arg Thr Ala Phe Ile Leu Gly Ser Gly Leu Leu Ser Phe Val
1 5 10 15
Ala Phe Trp Asn Ser Val Thr Trp His Leu Gln Arg Phe Trp Gly Ala
20 25 30
Ser Gly Tyr Phe Trp Gln Ala Gln Trp Glu Arg Leu Leu Thr Thr Phe
35 40 45
Glu Gly Lys Glu Trp Ile Leu Phe Phe Ile Gly Ala Ile Gln Val Pro
50 55 60
Cys Leu Phe Phe Trp Ser Phe Asn Gly Leu Leu Leu Val Val Asp Thr
65 70 75 80
Thr Gly Lys Pro Asn Phe Ile Ser Arg Tyr Arg Ile Gln Val Gly Lys
85 90 95
Asn Glu Pro Val Asp Pro Val Lys Leu Arg Gln Ser Ile Arg Thr Val
100 105 110
Leu Phe Asn Gln Cys Met Ile Ser Phe Pro Met Gly Gly Leu Pro Leu
115 120 125
Ser Leu Pro Gln Met Val Glu Arg Pro Leu Thr Pro *

130

135

140

<210> 1687
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1687
 Met Leu Thr Glu Leu Leu Leu Cys Val Leu Val Leu Cys Val Phe
 1 5 10 15
 Met Ser Arg Gly Ser Cys Leu Phe Ala Thr Ile Arg Glu Phe Trp Pro
 20 25 30
 Pro Trp Val Gly Cys Gly Arg Gly Glu Asn Pro Ser Val Gly Thr Val
 35 40 45
 Asp Pro Ser Cys Arg Leu Cys Ala Pro Gly His Val *
 50 55 60

<210> 1688
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1688
 Met Val Ala Ala Thr Pro Pro Gly Ile Ala Arg Trp Ala Leu Val Ile
 1 5 10 15
 Ser Phe Pro Pro Val Thr Pro Thr Ala Pro His Met Cys Ala Ala Gln
 20 25 30
 Pro Trp Gly Arg His Gly Ser Ala Glu Gly Thr Thr Gln Leu Pro Ala
 35 40 45
 Pro Arg Ser Ser Pro Ser Cys Gln Ser Trp Asp Lys Leu Leu Leu Leu
 50 55 60
 Leu Leu Glu *
 65 67

<210> 1689
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 1689
 Met Ala Ala Thr Met Val Ser Ile Ala Ser Phe Arg Leu Phe Leu Met
 1 5 10 15
 Ser Cys Thr Leu Val Ala Phe Ser Pro Ser Leu Leu Leu Ala Ala
 20 25 30
 Cys Gly Ser Ser Ser Pro Pro Ser Pro Leu Asn Pro Leu Thr Cys Arg
 35 40 45
 Ile Leu Ile Cys Phe Thr Met Val Leu Leu Pro Asp Ser Pro Ala Pro
 50 55 60
 Ser Ser Ser Arg Arg Cys Val Ala Arg *
 65 70 73

<210> 1690
 <211> 114
 <212> PRT
 <213> Homo sapiens

<400> 1690
 Met His Met Cys Ala Phe Leu His Val Trp Thr Cys Ala Cys Met His
 1 5 10 15
 Leu Cys Val Cys Val Cys Ala Glu Thr Gly Lys Gly Val Lys Val Leu
 20 25 30
 Val Arg Glu Pro Gly Ser Phe Leu Phe Pro Asn Leu Ser Cys Ser Lys
 35 40 45
 Glu Gly Trp Gly Trp Gly Gln Pro Leu Leu Lys Val Ile Gly Glu Glu
 50 55 60
 Arg Phe Ser Asp Ser Glu Val Thr Ala Ser Val Ala Gln Ala Val Ser
 65 70 75 80
 Leu Val Thr Val Ile Leu Gln Phe Ser Asp Pro His Val Ser Phe Arg
 85 90 95
 Gly Lys Arg Lys Lys Gly Thr Leu Trp Trp Val Leu Gly Gly Lys Arg
 100 105 110
 Lys *
 113

<210> 1691
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 1691
 Met Ala Phe Leu Leu Ser Thr Leu Leu Asn His Tyr Leu Ala Cys Lys
 1 5 10 15
 His Ser Ser Glu Leu Trp Leu Gln Ser Ser Leu Asn Asn Leu Gly Lys
 20 25 30
 Lys Lys Asp Lys Ala Tyr Ile Phe Thr Val Leu Ala Leu Lys His Ile
 35 40 45
 Pro Gln Met Pro Leu Arg Ile Tyr Phe Val Leu Gly Gln Ser Trp Trp
 50 55 60
 Leu Met Pro Val Ser
 65 69

<210> 1692
 <211> 103
 <212> PRT
 <213> Homo sapiens

<400> 1692
 Met Leu Gly Pro Thr Val Phe Asn Ile Lys Phe Val Phe Leu Ile Thr
 1 5 10 15
 Ala Leu Gly Ala Leu Pro Ser Ser Leu Pro His Ala His Ser Ala Ala

```

      20      25      30
Trp Thr Leu Leu Pro Gly Pro Pro Ala Gln Gln His Ser Thr Arg Leu
      35      40      45
Trp Thr Phe Ser Asn Met Ala Gly Val Glu Leu Cys Pro Gly Pro Gln
      50      55      60
Pro Ala Gly Pro Ala Ala Pro Val Gly Arg Thr Pro Pro Val Leu Ser
      65      70      75      80
Ala Phe Thr Thr Thr Ser Ser Phe Gly Ser Gly Cys Gly Val Thr Ser
      85      90      95
Ser Arg Glu Leu Pro Arg Arg
      100      103

```

<210> 1693
 <211> 48
 <212> PRT
 <213> Homo sapiens

```

<400> 1693
Met Gly Arg Phe Leu Asp Glu Gln Trp Val Tyr Phe Ile Ile Leu Leu
  1      5      10      15
Leu Leu Phe Phe Phe Arg Asp Ser Leu Ala Leu Ser Pro Arg Leu Glu
      20      25      30
Cys Ser Gly Ala Ile Ser Val His Ser Lys Leu Arg Leu Pro Gly Ser
      35      40      45      48

```

<210> 1694
 <211> 92
 <212> PRT
 <213> Homo sapiens

```

<400> 1694
Met Ile Phe Ala Cys Glu Cys Val Leu Arg Leu Leu Leu Ile Leu Asn
  1      5      10      15
Val Ser Phe Leu Gly Ala Val Ser Glu Glu Thr Thr Asn Ala Leu Glu
      20      25      30
Thr Trp Gly Ala Leu Arg Gln Asp Ile Asn Leu Asp Ile Pro Ser Phe
      35      40      45
Leu Leu Arg Glu His Ile Asp Glu Leu Ile Cys Asp Lys Thr Leu Asp
      50      55      60
Ser Lys Lys Ile Ala His Phe Arg Ala Glu Lys Glu Thr Phe Ser Glu
      65      70      75      80
Lys Asp Thr Tyr Cys Tyr Leu Lys Met Glu Leu *
      85      90      91

```

<210> 1695
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1695

```

Met Ala Val Gln Gln Gln Phe Ile Ile Val Val Leu Arg Leu Val Phe
 1           5           10           15
Pro Val Ala Gly Thr Thr Arg Ala Pro Leu His Trp Val Gly Ala Ile
          20          25          30
Pro Gly Trp Glu Trp Pro Pro Gly Asp Asp Ala Tyr Pro Ser Leu Leu
          35          40          45
Ala Pro Ser Gln His Pro Tyr Ser Gly Glu Ala Leu Cys Leu Leu Leu
          50          55          60
Leu Pro Ser Ile Val Leu Leu Glu Ser Cys Arg Lys Val Met Glu Arg
          65          70          75          80
Gly Leu *
          82

```

<210> 1696

<211> 159

<212> PRT

<213> Homo sapiens

<400> 1696

```

Met Leu Trp Leu Phe Gln Ser Leu Leu Phe Val Phe Cys Phe Gly Pro
 1           5           10           15
Gly Asn Val Val Ser Gln Ser Ser Leu Thr Pro Leu Met Val Asn Gly
          20          25          30
Ile Leu Gly Glu Ser Val Thr Leu Pro Leu Glu Phe Pro Ala Gly Glu
          35          40          45
Lys Val Asn Phe Ile Thr Trp Leu Phe Asn Glu Thr Ser Leu Ala Phe
          50          55          60
Ile Val Pro His Glu Thr Lys Ser Pro Glu Ile His Val Thr Asn Pro
          65          70          75          80
Lys Gln Gly Lys Arg Leu Asn Phe Thr Gln Ser Tyr Ser Leu Gln Leu
          85          90          95
Ser Asn Leu Lys Met Glu Asp Thr Gly Ser Tyr Arg Ala Gln Ile Ser
          100          105          110
Thr Lys Thr Ser Ala Lys Leu Ser Ser Tyr Thr Leu Arg Ile Leu Thr
          115          120          125
Leu Tyr Pro Ile Val Gly Asn Gly Ile Trp Gly Asn Lys Asn Phe Leu
          130          135          140
Thr Thr Leu Ala Arg Gly Asn Val Lys Leu Asp Gly Leu His Glu
          145          150          155          159

```

<210> 1697

<211> 105

<212> PRT

<213> Homo sapiens

<400> 1697

```

Met Glu Pro Arg Leu Phe Cys Trp Thr Thr Leu Phe Leu Leu Ala Gly
 1           5           10           15
Trp Cys Leu Pro Gly Leu Pro Cys Pro Ser Arg Cys Leu Cys Phe Lys
          20          25          30
Ser Thr Val Arg Cys Met His Leu Met Leu Asp His Ile Pro Gln Val

```

```

      35      40      45
Pro Gln Gln Thr Thr Val Leu Asp Leu Arg Phe Asn Arg Ile Arg Glu
      50      55      60
Ile Pro Gly Ser Ala Phe Lys Lys Leu Lys Asn Leu Asn Thr Leu Tyr
      65      70      75      80
Leu Tyr Lys Asn Glu Ile His Ala Leu Asp Lys Gln Thr Phe Lys Gly
      85      90      95
Leu Ile Ser Leu Glu His Leu Tyr Ile
      100      105

```

<210> 1698
 <211> 195
 <212> PRT
 <213> Homo sapiens

```

      <400> 1698
Met Pro Ser Trp Ile Gly Ala Val Ile Leu Pro Leu Leu Gly Leu Leu
      1      5      10      15
Leu Ser Leu Pro Ala Gly Ala Asp Val Lys Ala Arg Ser Cys Gly Glu
      20      25      30
Val Arg Gln Ala Tyr Gly Ala Lys Gly Phe Ser Leu Ala Asp Ile Pro
      35      40      45
Tyr Gln Glu Ile Ala Gly Glu His Leu Arg Ile Cys Pro Gln Glu Tyr
      50      55      60
Thr Cys Cys Thr Thr Glu Met Glu Asp Lys Leu Ser Gln Gln Ser Lys
      65      70      75      80
Leu Glu Phe Glu Asn Leu Val Glu Glu Thr Ser His Phe Val Arg Thr
      85      90      95
Thr Phe Val Ser Arg His Lys Lys Phe Asp Glu Phe Phe Arg Glu Leu
      100      105      110
Leu Glu Asn Ala Glu Lys Ser Leu Asn Asp Met Phe Val Arg Thr Tyr
      115      120      125
Gly Met Leu Tyr Met Gln Asn Ser Glu Val Phe Gln Asp Leu Phe Thr
      130      135      140
Glu Leu Lys Arg Tyr Tyr Thr Gly Gly Asn Val Asn Leu Glu Glu Met
      145      150      155      160
Leu Asn Asp Phe Trp Ala Arg Leu Leu Glu Arg Met Phe Gln Leu Ile
      165      170      175
Asn Pro Gln Tyr Pro Phe Ser Glu Gly Phe Leu Gly Met Cys Glu Gln
      180      185      190
Ile Pro *
      194

```

<210> 1699
 <211> 97
 <212> PRT
 <213> Homo sapiens

```

      <400> 1699
Met Asp Ser Pro Trp Ala Gly Leu Leu Trp Leu Leu Pro Thr Leu Trp
      1      5      10      15
Ser Ser Phe Pro Ala Pro Ala Cys Trp Pro Ser Ser Ser Ser Ser Ser
      20      25      30

```

```

Pro Val Cys Ala Ala Asn Gly Ala Met Ser Ala Ser Arg Asn Leu Arg
      35              40              45
Thr Leu Lys Gly Arg Thr Ala Pro Gly Ser Thr Leu Pro Leu Arg Arg
      50              55              60
Arg Pro Pro Pro His Ser Arg Cys Leu Met Ser Thr Phe Ser Arg Trp
      65              70              75              80
Leu Arg Ser Pro Cys Gln Cys Leu Pro Arg Ser Leu His Thr Gln Thr
      85              90              95 96

```

*

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<210> 1700
<211> 129
<212> PRT
<213> Homo sapiens

```

```

<400> 1700
Met Gly Trp Ala Pro Leu Leu Leu Thr Leu Leu Ala His Cys Thr Gly
  1              5              10              15
Ser Trp Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Glu Ser Glu Ala
      20              25              30
Pro Gly Gln Trp Val Asn Ile Ser Cys Thr Gly Ser Gly Ser Asn Leu
      35              40              45
Gly Ala Gly Phe Asp Val Gln Trp Tyr Gln Leu Ile Pro Gly Thr Ala
      50              55              60
Pro Lys Leu Leu Ile Phe Asn Asn Asn Arg Gln Pro Ser Gly Val Pro
      65              70              75              80
Asp Arg Phe Ser Ala Ser Lys Ser Gly Thr Ser Ala Ser Leu Thr Ile
      85              90              95
Asn Asp Leu Gln Pro Glu Asp Glu Ser Glu Tyr Tyr Cys Leu Ala Met
      100             105             110
Thr Ala Ala Ser Leu Val Ser Ser Glu Leu Gly Pro Lys Ser Pro Ala
      115             120             125             128

```

*

```

<210> 1701
<211> 219
<212> PRT
<213> Homo sapiens

```

```

<400> 1701
Met Arg Thr His Thr Arg Gly Ala Pro Ser Val Phe Phe Ile Tyr Leu
  1              5              10              15
Leu Cys Phe Val Ser Ala Tyr Ile Thr Asp Glu Asn Pro Glu Val Met
      20              25              30
Ile Pro Phe Thr Asn Ala Asn Tyr Asp Ser His Pro Met Leu Tyr Phe
      35              40              45
Ser Arg Ala Glu Val Ala Glu Leu Gln Leu Arg Ala Ala Ser Ser His
      50              55              60
Glu His Ile Ala Ala Arg Leu Thr Glu Ala Val His Thr Met Leu Ser
      65              70              75              80
Ser Pro Leu Glu Tyr Leu Pro Pro Trp Asp Pro Lys Asp Tyr Ser Ala

```

```

      85              90              95
Arg Trp Asn Glu Ile Phe Gly Asn Asn Leu Gly Ala Leu Ala Met Phe
      100              105              110
Cys Val Leu Tyr Pro Glu Asn Ile Glu Ala Arg Asp Met Ala Lys Asp
      115              120              125
Tyr Met Glu Arg Met Ala Ala Gln Pro Ser Trp Leu Val Lys Asp Ala
      130              135              140
Pro Trp Asp Glu Val Pro Leu Ala His Ser Leu Val Gly Phe Ala Thr
      145              150              155              160
Ala Tyr Asp Phe Leu Tyr Asn His Leu Ser Lys Thr Gln Gln Glu Lys
      165              170              175
Phe Leu Glu Val Ile Ala Asn Ala Ser Gly Tyr Met Phe Val Thr Leu
      180              185              190
Ile Leu Gly Ala Asp Gly Asp Ser Asn Thr Cys Thr Ile Ile Ser Pro
      195              200              205
Pro Thr Val Trp Leu Cys Ser Arg Glu Ala *
      210              215              218

```

<210> 1702
 <211> 86
 <212> PRT
 <213> Homo sapiens

```

      <400> 1702
Met Glu Gln Leu Leu Gly Ile Lys Leu Gly Cys Leu Phe Ala Leu Leu
  1              5              10              15
Ala Leu Thr Leu Gly Cys Gly Leu Thr Pro Ile Cys Phe Lys Trp Phe
      20              25              30
Gln Ile Asp Ala Ala Arg Gly His His Arg Leu Val Leu Arg Leu Leu
      35              40              45
Gly Cys Ile Ser Ala Gly Val Phe Leu Gly Ala Gly Phe Met His Met
      50              55              60
Thr Ala Glu Ala Leu Glu Glu Ile Glu Ser Gln Ile Gln Lys Phe Met
      65              70              75              80
Val Gln Ile Ser Lys *
      85

```

<210> 1703
 <211> 229
 <212> PRT
 <213> Homo sapiens

```

      <400> 1703
Met Leu Ser Met Leu Arg Thr Met Thr Arg Leu Cys Phe Leu Leu Phe
  1              5              10              15
Phe Ser Val Ala Thr Ser Gly Cys Ser Ala Ala Ala Ser Ser Leu
      20              25              30
Glu Met Leu Ser Arg Glu Phe Glu Thr Cys Ala Phe Ser Phe Ser Ser
      35              40              45
Leu Pro Arg Ser Cys Lys Glu Ile Lys Glu Arg Cys His Ser Ala Gly
      50              55              60
Asp Gly Leu Tyr Phe Leu Arg Thr Lys Asn Gly Val Val Tyr Gln Thr
      65              70              75              80

```

```
<210> 1704
<211> 202
<212> PRT
<213> Homo sapiens
```

950

<210> 1705
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1705
 Met Gly Leu Leu Gly Val Leu Trp Asn Thr Thr Leu His Met Cys Arg
 1 5 10 15
 Met Arg Leu Gln Asp Thr Gly Gln Lys Ile Arg Thr Gly Ser Cys Glu
 20 25 30
 Leu His Gly Ser Gln Ser Ser His Ser Thr Gly Asn Leu Arg Val Leu
 35 40 45
 Pro Ser His Asn Gly Glu Thr Leu His *
 50 55 57

<210> 1706
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 1706
 Met Gly Asp Tyr Arg Asn Val Arg Leu Leu Gly Ser Phe Ser Phe Ile
 1 5 10 15
 Ser Val Thr Ile Ser Arg Val Ile Phe Leu Leu Ser Leu Leu Gln Pro
 20 25 30
 Ser Gly Val Gly Ile Leu Phe Ala Asp Ser Gly Gly Thr Gly Tyr Thr
 35 40 45
 His His Cys Leu Trp Val *
 50 54

<210> 1707
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 1707
 Met Leu Glu Cys Ala Phe Ile Val Leu Trp Leu Gln Leu Gly Trp Leu
 1 5 10 15
 Ser Gly Glu Asp Gln Val Thr Gln Ser Pro Glu Ala Leu Arg Leu Gln
 20 25 30
 Glu Gly Glu Ser Ser Ser Leu Asn Cys Ser Tyr Thr Val Ser Gly Leu
 35 40 45
 Arg Gly Leu Phe Trp Tyr Arg Gln Asp Pro Gly Lys Gly Pro Glu Phe
 50 55 60
 Leu Phe Thr Leu Tyr Ser Ala Gly Glu Glu Lys Glu Lys Glu Arg Leu
 65 70 75 80
 Lys Ala Thr Leu Thr Lys Lys Glu Ser Phe Leu His Ile Thr Ala Pro
 85 90 95
 Lys Pro Glu Asp Ser Ala Thr Tyr Leu Cys Ala Val Gln Ala Gln Phe
 100 105 110
 His Ser Gly Gly Gly Ala Asp Gly Leu Thr Phe Gly Lys Gly Thr Arg
 115 120 125

Leu Lys Val Leu Ala Leu Tyr Pro Glu Pro *
 130 135 138

<210> 1708
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 1708
 Met Gly Pro Arg Phe Val Ser Thr Leu Pro Phe Ser Pro Ser Ala Ala
 1 5 10 15
 Trp Cys Ala Cys Glu Ala Gly Gly Gly Leu Arg Arg Glu Val Ala His
 20 25 30
 Ala Gln Arg Ala Ala Ser Thr Ala Pro Thr Ala His Met Gln Asn Ser
 35 40 45
 Thr Leu Ile Gly Leu Asn Leu Ser Arg Gly *
 50 55 58

<210> 1709
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 1709
 Met Arg Leu Pro Trp Glu Leu Leu Val Leu Gln Ser Phe Ile Leu Cys
 1 5 10 15
 Leu Ala Asp Asp Ser Thr Leu His Gly Pro Ile Phe Ile Gln Glu Pro
 20 25 30
 Ser Pro Val Met Phe Pro Leu Asp Ser Glu Glu Lys Lys Ala Lys Leu
 35 40 45
 Asn Cys Glu Asp Lys Gly Asp Pro Lys Pro His Ile Arg Trp Lys Leu
 50 55 60
 Asn Gly Ala Asp Ala Asp Thr Gly Met Glu Phe Leu Leu Gln Arg Cys
 65 70 75 80
 *

<210> 1710
 <211> 399
 <212> PRT
 <213> Homo sapiens

<400> 1710
 Met Leu Arg Leu Tyr Val Leu Val Met Gly Val Ser Ala Phe Thr Leu
 1 5 10 15
 Gln Pro Ala Ala His Thr Gly Ala Ala Arg Ser Cys Arg Phe Arg Gly
 20 25 30
 Arg His Tyr Lys Arg Glu Phe Arg Leu Glu Gly Glu Pro Val Ala Leu
 35 40 45
 Arg Cys Pro Gln Val Pro Tyr Trp Leu Trp Ala Ser Val Ser Pro Arg

50		55		60	
Ile Asn Leu Thr Trp His Lys Asn Asp Ser Ala Arg Thr Val Pro Gly					
65		70		75	80
Glu Glu Glu Thr Arg Met Trp Ala Gln Asp Gly Ala Leu Trp Leu Leu					
	85		90		95
Pro Ala Leu Gln Glu Asp Ser Gly Thr Tyr Val Cys Thr Thr Arg Asn					
	100		105		110
Ala Ser Tyr Cys Asp Lys Met Ser Ile Glu Leu Arg Val Phe Glu Asn					
	115		120		125
Thr Asp Ala Phe Leu Pro Phe Ile Ser Tyr Pro Gln Ile Leu Thr Leu					
	130		135		140
Ser Thr Ser Gly Val Leu Val Cys Pro Asp Leu Ser Glu Phe Thr Arg					
	145		150		155
Asp Lys Thr Asp Val Lys Ile Gln Trp Tyr Lys Asp Ser Leu Leu Leu					
	165		170		175
Asp Lys Asp Asn Glu Lys Phe Leu Ser Val Arg Gly Thr Thr His Leu					
	180		185		190
Leu Val His Asp Val Ala Leu Glu Asp Ala Gly Tyr Tyr Arg Cys Val					
	195		200		205
Leu Thr Phe Ala His Glu Gly Gln Gln Tyr Asn Ile Thr Arg Ser Ile					
	210		215		220
Glu Leu Arg Ile Lys Lys Lys Lys Glu Glu Thr Ile Pro Val Ile Ile					
	225		230		235
Ser Pro Leu Lys Thr Ile Ser Ala Ser Leu Gly Ser Arg Leu Thr Ile					
	245		250		255
Pro Cys Lys Val Phe Leu Gly Thr Gly Thr Pro Leu Thr Thr Met Leu					
	260		265		270
Trp Trp Thr Ala Asn Asp Thr His Ile Glu Ser Ala Tyr Pro Gly Gly					
	275		280		285
Arg Val Thr Glu Gly Pro Arg Gln Glu Tyr Ser Glu Asn Asn Glu Asn					
	290		295		300
Tyr Ile Glu Val Pro Leu Ile Phe Asp Pro Val Thr Arg Glu Asp Leu					
	305		310		315
His Met Asp Phe Lys Cys Val Val His Asn Thr Leu Ser Phe Gln Thr					
	325		330		335
Leu Arg Thr Thr Val Lys Glu Ala Ser Ser Thr Phe Ser Trp Gly Ile					
	340		345		350
Val Leu Ala Pro Leu Ser Leu Ala Phe Leu Val Leu Gly Gly Ile Trp					
	355		360		365
Met His Arg Arg Cys Lys His Arg Thr Gly Lys Ala Asp Gly Leu Thr					
	370		375		380
Val Leu Trp Pro His His Gln Asp Phe Gln Ser Tyr Pro Lys *					
385		390		395	398

<210> 1711

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1711

Met Ala Met Gly Val Pro Arg Val Ile Leu Leu Cys Leu Phe Gly Ala			
1	5	10	15
Ala Leu Cys Leu Thr Gly Ser Gln Ala Leu Gln Cys Tyr Ser Phe Glu			
	20	25	30
His Thr Tyr Phe Gly Pro Phe Asp Leu Arg Ala Met Lys Leu Pro Ser			
	35	40	45


```

Ile Ser Cys Pro His Glu Cys Phe Glu Ala Ile Leu Ser Leu Asp Thr
  50          55          60
Gly Tyr Arg Ala Pro Val Thr Leu Val Arg Lys Gly Cys Trp Thr Gly
  65          70          75          80
Pro Pro Ala Gly Gln Thr Gln Ser Asn Ala Asp Ala Leu Pro Pro Asp
          85          90          95
Tyr Ser Val Val Arg Gly Cys Thr Thr Asp Lys Cys Asn Ala His Leu
          100          105          110
Met Thr His Asp Ala Leu Pro Asn Leu Ser Gln Ala Pro Asp Pro Pro
          115          120          125
Thr Leu Ser Gly Leu Glu Cys Tyr Ala Cys Ile Gly Val His Gln Asp
          130          135          140
Asp Cys Ala Ile Gly Arg Ser Arg Arg Val Gln Cys His Gln Asp Gln
          145          150          155          160
Thr Ala Cys Phe Gln Gly Asn Gly Arg Met Thr Val Gly Asn Phe Ser
          165          170          175
Val Pro Val Tyr Ile Arg Thr Cys His Arg Ala Leu Leu His His Leu
          180          185          190
Met Gly Thr Thr Ser Pro Trp Thr Ala Ile Gly Pro Pro Arg Gly Ser
          195          200          205
Cys Cys Glu Gly Tyr Leu Cys Asn Arg Lys Ser Met Thr Gln Pro Phe
          210          215          220
Thr Ser Ala Ser Ala Thr Thr Pro Pro Arg Ala Leu Gln Val Leu Ala
          225          230          235          240
Leu Leu Leu Pro Val Leu Leu Leu Val Gly Leu Ser Ala *
          245          250          253

```

<210> 1712
 <211> 124
 <212> PRT
 <213> Homo sapiens

```

<400> 1712
Met Thr Trp Leu Leu Val Ala Tyr Ala Asp Phe Val Val Thr Phe Val
  1          5          10          15
Met Leu Leu Pro Ser Lys Asp Phe Trp Tyr Ser Val Val Asn Gly Val
          20          25          30
Ile Phe Asn Cys Leu Ala Val Leu Ala Leu Ser Ser His Leu Arg Thr
          35          40          45
Met Leu Thr Asp Pro Glu Lys Ser Ser Asp Cys Arg Pro Ser Ala Cys
          50          55          60
Thr Val Lys Thr Gly Leu Asp Pro Thr Leu Val Gly Ile Cys Gly Glu
          65          70          75          80
Gly Thr Glu Ser Val Gln Ser Leu Leu Leu Gly Ala Val Pro Lys Gly
          85          90          95
Asn Ala Thr Lys Glu Tyr Met Asp Glu Leu Ala Ala Glu Ala Arg Gly
          100          105          110
Ser His Leu Gln Val Pro Gln Val Leu Leu Tyr *
          115          120          123

```

<210> 1713
 <211> 214
 <212> PRT
 <213> Homo sapiens

<400> 1713

```

Met Leu His Leu Val Phe Ile Leu Pro Ser Leu Met Leu Leu Ile Pro
 1           5           10           15
His Ile Leu Leu Glu Asn Phe Ala Ala Ile Pro Gly His Arg Cys
      20           25           30
Trp Val His Met Leu Asp Asn Asn Thr Gly Ser Gly Asn Glu Thr Gly
      35           40           45
Ile Leu Ser Glu Asp Ala Leu Leu Arg Ile Ser Ile Pro Leu Asp Ser
      50           55           60
Asn Leu Arg Pro Glu Lys Cys Arg Arg Phe Val His Pro Gln Trp Gln
      65           70           75           80
Leu Leu His Leu Asn Gly Thr Ile His Ser Thr Ser Glu Ala Asp Thr
      85           90           95
Glu Pro Cys Val Asp Gly Trp Val Tyr Asp Gln Ser Tyr Phe Pro Ser
      100          105          110
Thr Ile Val Thr Lys Trp Asp Leu Val Cys Asp Tyr Gln Ser Leu Lys
      115          120          125
Ser Val Val Gln Phe Leu Leu Leu Thr Gly Met Leu Val Gly Gly Ile
      130          135          140
Ile Gly Gly His Val Ser Asp Arg Trp Leu Val Glu Ser Ala Arg Trp
      145          150          155          160
Leu Ile Ile Thr Asn Lys Leu Asp Glu Gly Leu Lys Ala Leu Arg Lys
      165          170          175
Val Ala Arg Thr Asn Gly Ile Lys Asn Ala Glu Arg Asn Pro Glu His
      180          185          190
Arg Gly Cys Lys Ile His His Ala Gly Gly Ala Gly Cys Ser Thr Asp
      195          200          205
Gln Asn Tyr Cys Val *
      210          213

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<210> 1714

<211> 178

<212> PRT

<213> Homo sapiens

<400> 1714

```

Met Ala Ala Ser Trp Ser Leu Leu Val Thr Leu Arg Pro Leu Ala Gln
 1           5           10           15
Ser Pro Leu Arg Gly Arg Cys Val Gly Cys Gly Ala Trp Ala Ala Ala
      20           25           30
Leu Ala Pro Leu Ala Thr Ala Pro Gly Lys Pro Phe Trp Lys Ala Tyr
      35           40           45
Thr Val Gln Thr Ser Glu Ser Met Thr Pro Thr Ala Thr Ser Glu Thr
      50           55           60
Tyr Leu Lys Ala Leu Ala Val Cys His Gly Pro Leu Asp His Tyr Asp
      65           70           75           80
Phe Leu Ile Lys Ala His Glu Leu Lys Asp Asp Glu His Gln Arg Arg
      85           90           95
Val Ile Gln Cys Leu Gln Lys Leu His Glu Asp Leu Lys Gly Tyr Asn
      100          105          110
Ile Glu Ala Glu Gly Leu Phe Phe Lys Ala Phe Phe Lys Glu Gln Thr
      115          120          125
Ser Lys Gly Pro Val Cys Leu Trp Arg Cys Trp Tyr Arg Lys Asn Asn
      130          135          140

```

Gly Asp Gly His Val Leu Cys Leu Cys Gly Asn Glu Glu Glu Lys Thr
 145 150 155 160
 Gly Ser Phe Ser Trp Phe His Ala Arg Cys Ala Gln Lys Asn Thr Ser
 165 170 175
 Pro *
 177

<210> 1715
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1715
 Met Arg Val Thr Ala Pro Arg Thr Val Leu Leu Leu Leu Trp Gly Ala
 1 5 10 15
 Val Ala Leu Thr Glu Thr Trp Ala Gly Ser His Ser Met Lys Tyr Phe
 20 25 30
 Tyr Thr Ala Met Ser Arg Ala Gly Arg Gly Glu Pro Arg Phe Ile Ala
 35 40 45
 Glu Gly Tyr Val Asp Asp Thr Gln Phe Val Arg Phe Asp Ser Asp Ala
 50 55 60
 Ala Ser Pro Lys Thr Asp Pro Gly Arg His Gly *
 65 70 75

<210> 1716
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1716
 Met Arg Phe Thr Phe Pro Leu Met Ala Ile Val Leu Glu Ile Ala Met
 1 5 10 15
 Ile Ala Ser Phe Gly Leu Phe Val Glu Tyr Glu Thr Asp His Thr Val
 20 25 30
 Leu Glu His Phe Asn Ile Thr Lys Pro Ser Asp Met Gly Ile Phe Phe
 35 40 45
 Glu Leu Tyr Pro Leu Phe Gln Asp Val His Gly Met Ile Phe Val Gly
 50 55 60
 Phe Asp Phe Pro Pro Asp Leu Pro Glu Glu Leu Trp Val Ser Gln Arg
 65 70 75 80
 Gly Tyr *
 82

<210> 1717
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1717
 Met Ala Leu Phe Phe Leu Ala Leu Asn Phe Trp Lys Val Gly Met Ala

```

      1           5           10           15
Cys Tyr Val Arg Thr Ser Ser Trp Asn Ser Leu Leu Phe Phe Ser Gln
      20           25           30
Pro Tyr Phe Leu Gly Ser Cys Phe Glu Gln Tyr Leu Ser Asn Val Cys
      35           40           45
Leu Pro Asp Val Val Pro Asp Ala *
      50           55 56

```

<210> 1718
 <211> 76
 <212> PRT
 <213> Homo sapiens

```

      <400> 1718
Met Tyr Leu Gly Leu Phe Leu Asp Phe Tyr Ser Val Ser Phe Cys Gly
      1           5           10           15
Cys Leu His Met Leu Gln Pro Gln Cys Phe Asn Tyr Phe Asn Ser Lys
      20           25           30
Asp Gln Ser Arg Phe His Cys Leu Lys His Cys Ser Asp His Leu Ile
      35           40           45
Phe Leu Leu Ser Glu Leu Arg Ser Asn Met Phe Ser Ser Phe Leu Ile
      50           55           60
Leu Ser Ile Phe Tyr Asp Tyr Cys Ile Asn Leu *
      65           70           75

```

<210> 1719
 <211> 71
 <212> PRT
 <213> Homo sapiens

```

      <400> 1719
Met Lys Ile Phe Phe His Ile Phe Phe His Lys Cys Leu Phe Thr Tyr
      1           5           10           15
Arg Leu Phe Ile Thr Leu Ala Leu Ile Leu Trp Tyr Ser Asp Ile Glu
      20           25           30
Glu Ser Thr Phe Pro Pro Leu Met Arg Tyr Cys Pro Asn Thr Val Leu
      35           40           45
His Lys Ser Phe Phe Gln Met Ser Ala Phe Ile Thr Tyr Gln Phe Ser
      50           55           60
Leu Tyr Leu Ser Leu Phe *
      65           70

```

<210> 1720
 <211> 101
 <212> PRT
 <213> Homo sapiens

```

      <400> 1720
Met Leu Ala Gly Gln Leu Leu Pro Met Leu Thr Leu Leu Pro Pro Ser
      1           5           10           15

```

```

Phe Pro Leu Pro His Pro Thr Leu Gly Pro Arg Arg His Ala Ser Leu
      20      25      30
Thr Gln Leu Gly Pro Ala Phe Trp Met Ala Trp Gly Arg Pro Trp Ala
      35      40      45
His Leu Gly Pro Gly Gln Pro Leu Gly Gln Leu Trp Lys Ser Ser Val
      50      55      60
Glu Glu His Leu Leu Ala Ala Trp Leu Gln Pro Leu Ala Leu Leu Glu
      65      70      75      80
Trp Ser Leu Gly Ala Ser Ala Leu Ser Ala Leu Gly Thr Ser His Pro
      85      90      95
Leu Gly Leu Gln *
      100

```

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<210> 1721
<211> 48
<212> PRT
<213> Homo sapiens

```

```

<400> 1721
Met Leu Val Leu Leu Val Trp Val His His Thr Leu Leu Leu Gly Gln
  1      5      10      15
Lys Ser Thr Tyr Glu Glu Lys Arg Asn Gly Lys Trp Gly Arg Gln Arg
      20      25      30
Arg Ala Pro Tyr Leu Gly Val Tyr Ile Glu Ala Thr Gly Gln Val *
      35      40      45      47

```

```

<210> 1722
<211> 70
<212> PRT
<213> Homo sapiens

```

```

<400> 1722
Met Asp Val Gly Pro Asn Ser Leu Pro His Leu Gly Leu Lys Leu Leu
  1      5      10      15
Leu Leu Leu Leu Leu Val Thr Leu Arg Gly Gln Ala Asn Thr Gly Trp
      20      25      30
Tyr Gly Ile Pro Gly Met Pro Gly Leu Pro Gly Ala Pro Gly Lys Asp
      35      40      45
Gly Tyr Asp Gly Leu Pro Gly Pro Lys Gly Glu Pro Gly Ile Asp Ala
      50      55      60
Ile Ser Leu Ile Leu *
      65      69

```

```

<210> 1723
<211> 54
<212> PRT
<213> Homo sapiens

```

```

<400> 1723
Met Asp Leu Ile Phe Val Lys Val Leu Leu Ile Phe Ala Ala Ile Gln

```

```

      1           5           10           15
Thr Leu Ser Lys Trp Gln Phe Ala Phe Thr Phe Ser Ile Gln Thr Val
      20           25           30
Pro Ser Leu Val Ile Asn Leu Ser Trp Leu Leu Leu Asp Leu Lys Pro
      35           40           45
Gly Thr His Ile Gln *
      50           53

```

<210> 1724
 <211> 60
 <212> PRT
 <213> Homo sapiens

```

      <400> 1724
Met Val Ser Gly Trp Ile Thr Lys Thr Gln Phe Leu Leu Leu Gly Arg
      1           5           10           15
Gly Lys Ile Cys Met Tyr Lys Cys Ile Lys Gln Leu Gln Val Arg Lys
      20           25           30
Thr Asp Val Ile Thr Thr Lys Gln Ile Asn Tyr Glu Glu Ile Asn Cys
      35           40           45
Leu Asn His Ile Met Leu Thr Thr Lys Phe Trp *
      50           55           59

```

<210> 1725
 <211> 63
 <212> PRT
 <213> Homo sapiens

```

      <400> 1725
Met Phe Phe Arg Met Gln Val Cys Glu His His Gly Phe Trp Val Ile
      1           5           10           15
Leu Leu Leu Leu Ser Leu Lys Met Glu Ile Pro Leu Ala Ala Tyr Pro
      20           25           30
Thr Ala Glu Tyr Ser Ser Ile Gly Ser Gly Phe Thr Pro Leu His Pro
      35           40           45
Ser Arg Thr Phe Thr Gln Ala Ser Pro Leu Pro Ser Ile Phe *
      50           55           60           62

```

<210> 1726
 <211> 57
 <212> PRT
 <213> Homo sapiens

```

      <400> 1726
Met Cys Leu Phe Cys Ser Phe Val Asn Val Thr Leu Gly Ser Thr Asp
      1           5           10           15
Pro Met Cys Cys Pro Ala Gln Trp Leu Ala Gln Arg Met Pro Trp Ala
      20           25           30
Phe Val Ser Ile Arg Lys Ala Trp Pro Leu Gly Arg Met Ser Gly Ala
      35           40           45

```

Ser Gln Arg Leu Lys Glu Glu Glu *
 50 55 56

<210> 1727
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1727
 Met Arg Trp Pro Trp Ala Ser Trp Ala Ala Val Leu Leu Lys Leu Pro
 1 5 10 15
 Arg Arg Val Leu Pro Trp Leu Pro Cys Gly His Gln Gln His Val Arg
 20 25 30
 Ala Thr Ala Ser Ser Arg Ser Pro Pro Met Pro Val Thr Lys
 35 40 45 46

<210> 1728
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1728
 Met Lys Met Glu Met Glu Thr Lys Arg Ser Trp Arg Pro Gln Ser His
 1 5 10 15
 Gly His Phe Thr Phe Gln Phe Leu Leu Ser Trp Thr Phe Glu Leu Ile
 20 25 30
 Leu Phe His Phe Val Pro Phe Phe Pro Tyr Leu Leu Phe *
 35 40 45

<210> 1729
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1729
 Met Val Leu Leu Pro Leu Gln Cys Gly Leu Thr Lys Ala Ser Ser Cys
 1 5 10 15
 Leu His Thr Leu Cys Ser Ser Ser Asp Gln Ile Gly Tyr Leu Pro Val
 20 25 30
 Lys Asn Thr Asp Gln Leu Gly Leu Gln Met Glu Val Ala Glu Met Cys
 35 40 45 48
 *

<210> 1730
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1730
 Met Phe Thr Phe Gly Arg Leu Phe Gln Ile Ile Thr Val Val Thr Cys
 1 5 10 15
 Leu Gln Phe Ile Gln Asp Cys Cys Ile His Ser Arg Gln Ile Asn Ser
 20 25 30
 Leu Leu Glu Thr Ser Ser Leu Ser Arg Cys Leu Glu Val Pro Asp Val
 35 40 45
 Cys *
 49

<210> 1731
 <211> 227
 <212> PRT
 <213> Homo sapiens

<400> 1731
 Met Gly Cys Asp Gly Arg Val Ser Gly Leu Leu Arg Arg Asn Leu Gln
 1 5 10 15
 Pro Thr Leu Thr Tyr Trp Ser Val Phe Phe Ser Phe Gly Leu Cys Ile
 20 25 30
 Ala Phe Leu Gly Pro Thr Leu Leu Asp Leu Arg Cys Gln Thr His Ser
 35 40 45
 Ser Leu Pro Gln Ile Ser Trp Val Phe Phe Ser Gln Gln Leu Cys Leu
 50 55 60
 Leu Leu Gly Ser Ala Leu Gly Gly Val Phe Lys Arg Thr Leu Ala Gln
 65 70 75 80
 Ser Leu Trp Ala Leu Phe Thr Ser Ser Leu Ala Ile Ser Leu Val Phe
 85 90 95
 Ala Val Ile Pro Phe Cys Arg Asp Val Lys Val Leu Ala Ser Val Met
 100 105 110
 Ala Leu Ala Gly Leu Ala Met Gly Cys Ile Asp Thr Val Ala Asn Met
 115 120 125
 Gln Leu Val Arg Met Tyr Gln Lys Asp Ser Ala Val Phe Leu Gln Val
 130 135 140
 Leu His Phe Phe Val Gly Phe Gly Ala Leu Leu Ser Pro Leu Ile Ala
 145 150 155 160
 Asp Pro Phe Leu Ser Glu Ala Asn Cys Leu Pro Ala Asn Ser Thr Gly
 165 170 175
 Gln His His Leu Pro Arg Ala Thr Cys Ser Met Ser Pro Gly Cys Trp
 180 185 190
 Gly Gln His His Val Asp Ala Gln Ala Leu Val Gln Pro Asp Val Pro
 195 200 205
 Lys Ala Asp Ser Gln Gly Pro Gly Arg Glu Pro Glu Gly Pro Met Pro
 210 215 220
 Ser Gly *
 225 226

<210> 1732
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 1732

```

Met Val Ser Lys Phe Leu Leu Ser His Leu Val Leu Ala Val Pro Leu
 1          5          10          15
Arg Val Leu Leu Val Leu Trp Ala Leu Cys Val Gly Leu Ser Arg Val
          20          25          30
Met Ile Gly Arg His His Val Thr Asp Val Leu Ser Gly Phe Val Ile
          35          40          45
Gly Tyr Leu Gln Phe Arg Met Met Glu Lys Val Ser Met Gln Tyr Lys
          50          55          60
Thr Cys Arg Met Leu Ile Phe Val Trp Arg Arg Ala Arg Arg Pro Thr
          65          70          75          80
His Thr Phe Glu Gly Arg Leu Val Ser Lys Lys Gly Gln Asp Leu Ala
          85          90          95
Arg Trp Leu Ser Leu *
          100 101

```

<210> 1733

<211> 139

<212> PRT

<213> Homo sapiens

<400> 1733

```

Met Lys Phe Thr Thr Leu Leu Phe Leu Ala Ala Val Ala Gly Ala Leu
 1          5          10          15
Val Tyr Ala Glu Asp Ala Ser Ser Asp Ser Thr Gly Ala Asp Pro Ala
          20          25          30
Gln Glu Ala Gly Thr Ser Lys Pro Asn Glu Glu Ile Ser Gly Pro Ala
          35          40          45
Glu Pro Ala Ser Pro Pro Glu Thr Thr Thr Thr Ala Gln Glu Thr Ser
          50          55          60
Ala Ala Ala Val Gln Gly Thr Ala Lys Val Thr Ser Ser Arg Gln Glu
          65          70          75          80
Leu Asn Pro Leu Lys Ser Ile Val Glu Lys Ser Ile Leu Leu Thr Glu
          85          90          95
Gln Ala Leu Ala Lys Ala Gly Lys Gly Met His Gly Gly Val Pro Gly
          100          105          110
Gly Lys Gln Phe Ile Glu Asn Gly Ser Glu Phe Ala Gln Lys Leu Leu
          115          120          125
Lys Lys Phe Ser Leu Leu Lys Pro Trp Ala *
          130          135          138

```

<210> 1734

<211> 60

<212> PRT

<213> Homo sapiens

<400> 1734

```

Met Val Arg Ala Ser Phe Leu Cys Cys Val His Arg Thr Leu Gly Pro
 1          5          10          15
Trp Asp Leu Ser His Met Glu Leu Gly Gln Leu Leu Gln Asn Ala Pro
          20          25          30
Ser Ala His Arg Gly Cys Leu Gly Val Trp Lys Glu Val Val Pro Lys

```

35 40 45
 Gln Leu Val Cys Trp Ile Leu Thr Phe Phe Phe *
 50 55 59

<210> 1735
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 1735
 Met Cys Ala Cys Ala Val Arg Ala Leu Ser Leu Ala Gly Gly Ala Val
 1 5 10 15
 Leu Leu Ser Ser Leu Cys Ala Cys Ala Arg Ala Pro Arg Tyr Val Gly
 20 25 30
 Gly Glu Arg Arg Val Gln Ser Pro Ala Arg Pro Ala Asp Ser Val Ala
 35 40 45
 Arg Ile Ala Phe Ile Leu Phe Arg Phe Arg Thr Asp Leu Gln Ser Gly
 50 55 60
 Pro Ser Leu His Leu Gly Ile Cys *
 65 70 72

<210> 1736
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 1736
 Met Met Ala Leu Phe Thr Gly Lys Leu Leu Gln Val Val Ser Lys Val
 1 5 10 15
 Leu Trp Leu Tyr Gln Thr Asn Phe Ser Leu His Thr His Tyr Ser Phe
 20 25 30
 Asn Arg Gly Gln Ile Phe Lys Arg Lys Thr Val Gln Asn Cys Arg His
 35 40 45
 Thr Cys Ala Asn Pro Gly Ser Val Glu Arg Leu Ile Trp Glu Phe Gln
 50 55 60 64
 *

<210> 1737
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1737
 Met Ile Gln Val Arg Asn Leu Ile Val Leu Val Cys Phe Leu Val Glu
 1 5 10 15
 Leu Leu Asn Val Pro Val Leu Phe Leu Tyr Ser Arg Gly Trp Gln Thr
 20 25 30
 Leu Thr His Gly Leu Thr Gln Leu Lys Thr Ala Phe Phe Leu *
 35 40 45 46

<210> 1738
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 1738
 Met Val Thr Gln Leu Thr Leu Glu Val Leu His Leu Ser Leu Val Val
 1 5 10 15
 Gly Gln Val Ser Asn Asn Leu Leu Leu His Ile Gly Pro Leu Ala Ser
 20 25 30
 Glu Gln Met Phe Tyr Ala Val Ala Thr Lys Ile Arg Asp Glu Asn Thr
 35 40 45
 Tyr Lys Ile Cys Thr Trp Leu Glu Ile Lys Val His His Val Leu Leu
 50 55 60
 His Ile Gln Gly Thr Leu Thr Cys Ser Tyr Leu Ser His Ser Glu Gln
 65 70 75 80
 Leu Val Phe Gln Ser Tyr Glu Tyr Val Asp Cys Arg Gly Asn Ala Ser
 85 90 95
 Val Pro His Gln Leu Thr Pro His Pro Pro *
 100 105 106

<210> 1739
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 1739
 Met Val Leu Pro Pro His Lys Thr Val Gln Leu Pro Arg Leu His Leu
 1 5 10 15
 Val Trp Leu Trp Val Ser Gln Ala Trp Val Gly Gly Thr Val Leu His
 20 25 30
 Trp Leu Ala Ser Gln Gln Leu Cys Val Leu Val Pro Ala Ser Leu Thr
 35 40 45
 Met Ser Trp Asp Leu Glu Ala Arg Leu Gly Tyr Ile Leu Ala Trp Met
 50 55 60
 Ser Leu Gly Pro Cys Tyr Cys Cys Leu Phe Thr Ile Pro Thr Leu Leu
 65 70 75 80
 Glu Ile Ser Leu Ile Val Ser Leu Ala *
 85 89

<210> 1740
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1740
 Met His Cys Val Leu Glu Ile Leu Val Ser Val Leu Gly Leu Thr His
 1 5 10 15
 His Leu Leu Leu Arg Asp Arg Asp His Tyr Arg Leu Val Arg Leu Met

[illegible]

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<210> 1741
<211> 49
<212> PRT
<213> Homo sapiens
```

```

      <400> 1741
Met Ile Leu Asn Lys Ala Leu Met Leu Gly Ala Leu Ala Leu Thr Thr
 1          5          10
Val Met Ser Pro Cys Gly Gly Glu Gly Ile Val Gly Glu Cys Met Ser
      20          25          30
Glu Gly Cys Ser Leu Glu Leu Lys Asn Ser Lys Leu Lys Glu Lys Arg
      35          40          45          48
*
```

```
<210> 1742
<211> 87
<212> PRT
<213> Homo sapiens
```

[illegible]

```
<210> 1743
<211> 49
<212> PRT
<213> Homo sapiens
```

<400> 1743

Met	Gly	Phe	Leu	Ser	Leu	Thr	Leu	Tyr	Leu	Leu	Thr	Ser	Leu	Asn	Lys
1				5					10					15	
Met	Leu	Phe	Lys	Leu	Arg	Gly	Ala	Gln	Pro	Thr	Glu	Glu	Asp	Ile	Gly
			20					25					30		

Gly Trp Leu Asn Glu Leu Lys Thr Ser Leu Lys Tyr Ile Arg Leu Arg
 35 40 45 48
 *

<210> 1744
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1744
 Met Gly Val Ser Glu Leu Leu Leu Leu Lys Met Ile Ala Ser Val
 1 5 10 15
 Ile Phe Leu Tyr Ser Phe Ile Ser Met Phe Lys Thr Gln Leu Leu Cys
 20 25 30
 Ser Ser Ser Thr Ser His Gly Ile Leu Glu Ser Arg Ile Lys Cys His
 35 40 45
 Ala Asp Phe Tyr Leu Phe Cys Gln *
 50 55 56

<210> 1745
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 1745
 Met Asn Gln Leu Ser Phe Leu Leu Phe Leu Ile Ala Thr Thr Arg Gly
 1 5 10 15
 Trp Ser Thr Asp Glu Ala Asn Thr Tyr Phe Leu Glu Cys Thr Cys Ser
 20 25 30
 Trp Ser Pro Ser Leu Pro Lys Ser Cys Pro Glu Ile Lys Asp Gln Cys
 35 40 45
 Pro Ser Ala Phe Asp Gly Leu Tyr Phe Ile Arg Thr Glu Asn Ala Val
 50 55 60
 Ile His His Thr Phe Cys Val Met Thr Ser Ala Gly Cys Phe Trp Ile
 65 70 75 80
 Leu Lys Val Thr Val His Asn Tyr Asp Leu Thr Thr Asp Thr Pro *
 85 90 95

<210> 1746
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1746
 Met Val Ile Ser Ala Ala Val Leu Ser Ser Ile Leu Cys Val Phe Leu
 1 5 10 15
 Ser Lys Leu Val Leu Met Asn Asp Glu Cys Leu Arg Leu Thr Phe Trp
 20 25 30
 Leu His Cys Asn Ala Lys His Tyr Arg Tyr Ser Met Leu Gly Phe Pro

35 40 45
 Lys Leu Thr Ser Val
 50 53

<210> 1747
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1747
 Met Asn Phe Glu Ile Leu Ile Gln Arg Ser Leu Leu Phe Tyr Phe Val
 1 5 10 15
 Leu Ala Leu Asn Phe Pro Val Ala Ser Leu Asp Phe Phe Ser Val Lys
 20 25 30
 Ile Ile Ser Ala Val Phe Val Glu Gln Lys Phe Trp Asp Phe Val Lys
 35 40 45 48
 *

<210> 1748
 <211> 196
 <212> PRT
 <213> Homo sapiens

<400> 1748
 Met Ala Met Leu Pro Phe Pro Ile Phe Leu Val Leu Leu Leu Arg Gly
 1 5 10 15
 Leu Val Leu Trp Thr Pro Ala Ser Ser Gly Thr Ile Met Pro Glu Glu
 20 25 30
 Arg Lys Thr Glu Ile Glu Arg Glu Thr Glu Thr Glu Ser Glu Thr Val
 35 40 45
 Ile Gly Thr Glu Lys Glu Asn Ala Pro Glu Arg Glu Arg Gly Ser Val
 50 55 60
 Ile Thr Val Leu His Gln Val Phe Ser Thr Ala Met Lys Asn Asp Thr
 65 70 75 80
 Asp Thr Gly Asn Met Gln Lys Glu Val Met Ser Val Thr Glu Gln Val
 85 90 95
 Glu Lys Lys Lys Asn Asp Ile Glu Lys Asp Asp Thr Gly Arg Lys Arg
 100 105 110
 Lys Pro Asp Ile Ser Leu Leu Glu Val Ile Val Asp Val Ala Met Lys
 115 120 125
 Val Lys Lys Glu Ile Val Thr Gly Asp Thr Asn Thr Lys Asn Leu Lys
 130 135 140
 Glu Ala Lys Lys Glu Lys Lys Arg Ala Val Ser Leu Pro Leu Asn Arg
 145 150 155 160
 Arg Ala Pro Lys Leu His Leu Gln Asn Arg His Gly Phe Gly Leu Leu
 165 170 175
 Cys Ile Leu Val Pro Glu Val Asp Thr Ile Asn Leu Val Ile Phe Leu
 180 185 190
 Asp Asn Val *
 195

<210> 1749
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1749
 Met Leu Val Lys Val Val Tyr Val Met Gly Ala Ile Leu Lys Ile Phe
 1 5 10 15
 Leu Arg Glu Gly Asn Val Ile Asn Gln Arg Ser Gly Met Asp Ile Glu
 20 25 30
 Lys Tyr Ser Glu His Tyr Leu Ala Gln Gly Val Arg Trp *
 35 40 45

<210> 1750
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 1750
 Met Glu Leu Val Arg Arg Leu Met Pro Leu Thr Leu Leu Ile Leu Ser
 1 5 10 15
 Cys Leu Ala Glu Leu Thr Met Ala Glu Ala Glu Gly Asn Ala Ser Cys
 20 25 30
 Thr Val Ser Leu Gly Gly Ala Asn Met Ala Glu Thr His Lys Ala Met
 35 40 45
 Ile Leu Gln Leu Asn Pro Ser Glu Asn Cys Thr Trp Thr Ile Glu Arg
 50 55 60
 Pro Glu Asn Lys Ser Ile Arg Ile Ile Phe Cys Tyr Val Gln Leu Gly
 65 70 75 80
 Ser Glu
 82

<210> 1751
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 1751
 Met Gly Ser Val Phe Trp His Val Leu Phe Cys Ile Ser Gly Val Cys
 1 5 10 15
 Leu Trp Cys Ala His Arg Met Ala Ala Phe Leu Gln Gln Met Ala Val
 20 25 30
 Leu Leu Pro Val Asp Cys Glu Arg Pro Ala Ala Val His Trp Leu Ala
 35 40 45
 Leu Cys Gly Cys Cys Tyr Gly Gln Leu Val Trp Glu Ser Arg Thr Arg
 50 55 60
 Ser Cys Phe Trp Ser Leu Glu Cys Leu Cys Phe Gly Gly Gln His Phe
 65 70 75 80
 Gly Ser Val Pro Ser Phe Phe Cys Ser Ser Val Trp Leu *
 85 90 93

<210> 1752
 <211> 143
 <212> PRT
 <213> Homo sapiens

<400> 1752
 Met Asp Thr Trp Leu Val Cys Trp Ala Ile Phe Ser Leu Leu Lys Ala
 1 5 10 15
 Gly Leu Thr Glu Pro Glu Val Thr Gln Thr Pro Ser His Gln Val Thr
 20 25 30
 Gln Met Gly Gln Glu Val Ile Leu Arg Cys Val Pro Ile Ser Asn His
 35 40 45
 Leu Tyr Phe Tyr Trp Tyr Arg Gln Ile Leu Gly Gln Lys Val Glu Phe
 50 55 60
 Leu Val Ser Phe Tyr Asn Asn Glu Ile Ser Glu Lys Ser Glu Ile Phe
 65 70 75 80
 Asp Asp Gln Phe Ser Val Glu Arg Pro Asp Gly Ser Asn Phe Thr Leu
 85 90 95
 Lys Ile Arg Ser Thr Lys Leu Glu Asp Ser Ala Met Tyr Phe Cys Ala
 100 105 110
 Ser Ser Glu Arg Gly Ser Gly Ala Asn Val Leu Thr Phe Gly Ala Gly
 115 120 125
 Ser Arg Leu Thr Val Leu Glu Asp Leu Lys Asn Val Phe Pro Pro
 130 135 140 143

<210> 1753
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 1753
 Met Val Cys Arg Leu Pro Cys Thr Leu Leu Pro Trp Pro Leu Lys His
 1 5 10 15
 Lys Gln Gly Ala Leu Leu Tyr Ile Cys Pro Ala Ser Leu Pro Ala Phe
 20 25 30
 Asn Pro Arg Asn Leu Ser Val Tyr Leu Leu Phe Ser Ala Ser Glu Ser
 35 40 45
 Leu Pro Leu Lys Ser Glu Gln Ala Arg Pro Gly Gly Ser Arg Leu *
 50 55 60 63

<210> 1754
 <211> 124
 <212> PRT
 <213> Homo sapiens

<400> 1754
 Met Val Leu Gln Thr His Ala Phe Ile Ser Leu Leu Leu Trp Ile Ser
 1 5 10 15
 Gly Ala Cys Gly Asp Ile Val Met Thr His Ser Pro Asp Ser Leu Ala
 20 25 30


```

Val Ser Leu Gly Glu Thr Ala Thr Ile Asp Cys Arg Ser Ser Gln Ser
    35                      40                      45
Val Leu Tyr His Ala Asn Asn Lys Asn Tyr Leu Thr Trp Tyr Gln Gln
    50                      55                      60
Arg Pro Arg Gln Ser Pro Lys Val Leu Ile Phe Trp Ala Ser Thr Arg
    65                      70                      75                      80
Glu Thr Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp
    85                      90                      95
Tyr Ser Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Thr Tyr
    100                      105                      110
Tyr Cys Gln Gln Tyr Tyr Asp Ser Pro Ile Thr Phe
    115                      120                      124

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<210> 1755
<211> 111
<212> PRT
<213> Homo sapiens

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<400> 1755
Met Gln Ala Thr Ser Asn Leu Leu Asn Leu Leu Leu Ser Leu Phe
  1                      5                      10                      15
Ala Gly Leu Asn Pro Ser Lys Thr His Ile Asn Pro Lys Glu Gly Trp
    20                      25                      30
Gln Val Tyr Ser Ser Ala Gln Asp Pro Asp Gly Arg Gly Ile Cys Thr
    35                      40                      45
Val Val Ala Pro Glu Gln Asn Leu Cys Ser Arg Asp Ala Lys Ser Arg
    50                      55                      60
Gln Leu Arg Gln Leu Leu Glu Lys Val Gln Asn Met Ser Gln Ser Ile
    65                      70                      75                      80
Glu Val Leu Asn Leu Arg Thr Gln Arg Asp Phe Gln Tyr Val Leu Lys
    85                      90                      95
Met Glu Thr Gln Met Lys Gly Leu Lys Ala Lys Phe Arg Gln Ile
    100                      105                      110 111

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<210> 1756
<211> 74
<212> PRT
<213> Homo sapiens

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<400> 1756
Met Leu Pro Arg Leu Val Leu Ser Ser Trp Pro Gln Ser Ile Phe Leu
  1                      5                      10                      15
Pro Arg Phe Trp Asn Tyr Arg Cys Glu Pro Pro Cys Leu Ala Cys Phe
    20                      25                      30
Asp Ile Phe Tyr Ser Val Leu Ile Thr Asn Ser Leu His Met Pro Glu
    35                      40                      45
Tyr Lys Ser Lys Cys Tyr Leu Leu Phe Arg Trp Glu Leu Gln Lys Leu
    50                      55                      60
His Gln Lys Tyr Ala Leu Arg Tyr Ile *
    65                      70                      73

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<210> 1757
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1757
 Met Glu Asn Val Asn Leu Lys Ala Ser Tyr Leu Gln Phe Ser Lys Leu
 1 5 10 15
 Met Ala Gly Lys Gly Trp Ala Leu Phe Ile Ala Leu Thr Phe Ser Gln
 20 25 30
 Arg Leu Leu Pro Cys Leu Ala Ile Ile Glu Ile Ile Asn Val Gly Val
 35 40 45
 Glu *
 49

<210> 1758
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 1758
 Met Ala Trp Ile Pro Leu Phe Leu Gly Val Leu Ala Tyr Cys Thr Glu
 1 5 10 15
 Ser Val Ala Ser Tyr Glu Leu Phe Gln Pro Pro Ser Val Ser Val Ser
 20 25 30
 Pro Gly Gln Thr Ala Thr Phe Thr Cys Ser Gly Asp Asp Leu Gly Asn
 35 40 45
 Lys Tyr Ile Cys Trp Tyr Leu Gln Lys Pro Gly Gln Pro Pro Val Val
 50 55 60
 Leu Met Tyr Gln Asp Asn Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe
 65 70 75 80
 Ser Gly Ser Asn Ser Gly Ser Thr Ala Thr Leu Thr Ile Ser Gly Thr
 85 90 95
 Gln Ala Thr Asp Glu Ala Leu Tyr Phe Cys Gln Ala Trp Asp Thr Asn
 100 105 110
 Gly Ala Val Phe Gly Gly Gly Thr Gln Leu Thr
 115 120 123

<210> 1759
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 1759
 Met Arg Trp Arg Thr Ile Leu Leu Gln Tyr Cys Phe Leu Leu Ile Thr
 1 5 10 15
 Cys Leu Leu Thr Ala Leu Glu Ala Val Pro Ile Asp Ile Asp Lys Thr
 20 25 30
 Lys Val Gln Asn Ile His Pro Val Glu Ser Ala Lys Ile Glu Pro Pro
 35 40 45
 Asp Thr Gly Leu Tyr Tyr Asp Glu Ile Val Leu Glu Glu Leu Gly Gly
 50 55 60

Pro Cys Leu Tyr Leu Glu Gly Asn Pro Thr *
 65 70 74

<210> 1760
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 1760
 Met Arg Leu Pro Asp Val Gln Leu Trp Leu Val Leu Leu Trp Ala Leu
 1 5 10 15
 Val Arg Ala Gln Gly Thr Gly Ser Val Cys Pro Ser Cys Gly Gly Ser
 20 25 30
 Lys Leu Ala Pro Gln Ala Glu Arg Ala Leu Val Leu Glu Leu Ala Lys
 35 40 45
 Gln Gln Ile Leu Asp Gly Leu His Leu Thr Ser Arg Pro Arg Ile Thr
 50 55 60
 His Pro Pro Pro Gln Ala Ala Leu Thr Arg Ala Leu Arg Arg Leu Gln
 65 70 75 80
 Pro Gly Ser Val Ala Pro Gly Asn Gly Glu Glu Val Ile Ser Phe Ala
 85 90 95
 Thr Val Thr Asp Ser Thr Ser Ala Tyr Ser Ser Leu Leu Thr Phe His
 100 105 110
 Leu Ser Thr Pro Arg Ser His His Leu Tyr
 115 120 122

<210> 1761
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 1761
 Met Arg Val Arg Ile Gly Leu Thr Leu Leu Leu Cys Ala Val Leu Leu
 1 5 10 15
 Ser Leu Ala Ser Ala Ser Ser Asp Glu Glu Gly Ser Gln Asp Glu Ser
 20 25 30
 Leu Asp Ser Lys Thr Thr Leu Thr Ser Asp Glu Ser Val Lys Asp His
 35 40 45
 Thr Thr Ala Gly Arg Val Val Ala Gly Gln Ile Phe Leu Asp Ser Glu
 50 55 60
 Glu Ser Glu Leu Glu Ser Ser Ile Gln Glu Glu Glu Asp Ser Leu Lys
 65 70 75 80
 Ser Gln Glu Gly Glu Ser Val Thr Glu Asp Ile Ser Phe Leu Glu Ser
 85 90 95
 Pro Asn Pro Glu Asn Lys Asp Tyr Glu Glu Pro Lys Lys Val Arg Lys
 100 105 110
 Pro Gly Ser Leu Asp Ile Phe Leu Ala Phe *
 115 120 122

<210> 1762
 <211> 145

<212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(145)
 <223> Xaa = any amino acid or nothing

<400> 1762
 Met Ala Leu Ala Ala Leu Met Ile Ala Leu Gly Ser Leu Gly Leu His
 1 5 10 15
 Thr Trp Gln Ala Gln Ala Val Pro Thr Ile Leu Pro Leu Gly Leu Ala
 20 25 30
 Pro Asp Thr Phe Asp Asp Thr Tyr Val Gly Cys Ala Glu Glu Met Glu
 35 40 45
 Glu Lys Ala Ala Pro Leu Leu Lys Glu Glu Met Ala His His Ala Leu
 50 55 60
 Leu Arg Glu Ser Trp Glu Ala Ala Gln Glu Thr Trp Glu Asp Lys Arg
 65 70 75 80
 Arg Gly Leu Thr Leu Pro Pro Gly Phe Lys Ala Gln Asn Gly Ile Ala
 85 90 95
 Ile Met Val Tyr Thr Asn Ser Ser Asn Thr Leu Tyr Trp Glu Leu Asn
 100 105 110
 Xaa Ala Val Arg Thr Gly Gly Gly Ser Arg Glu Leu Tyr Met Arg His
 115 120 125
 Phe Pro Phe Lys Ala Leu His Phe Tyr Leu Ile Arg Ala Leu Gln Leu
 130 135 140
 Leu
 145

<210> 1763
 <211> 257
 <212> PRT
 <213> Homo sapiens

<400> 1763
 Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg
 1 5 10 15
 Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp Pro Leu Glu
 20 25 30
 Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly
 35 40 45
 Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg
 50 55 60
 Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val
 65 70 75 80
 Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg
 85 90 95
 Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu
 100 105 110
 Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp
 115 120 125
 Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro
 130 135 140
 Ile Ser Arg Pro Gln Val Leu Gly Ala Ser Thr Thr Val Leu Glu Leu
 145 150 155 160

```

Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro
      165      170      175
Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg
      180      185      190
Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu
      195      200      205
Met Glu Asp Asp Asp Leu Tyr Ser Cys Val Val Glu Asn Pro Ile Asn
      210      215      220
Gln Gly Arg Thr Leu Pro Cys Lys Ile Thr Glu Tyr Arg Lys Ser Ser
      225      230      235      240
Leu Ser Ser Ile Trp Leu Gln Glu Ala Phe Ser Ser Leu Gly Pro Trp
      245      250      255 256

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<210> 1764
<211> 166
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(166)
<223> Xaa = any amino acid or nothing

```

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<400> 1764
Met Ala Leu Lys Val Leu Leu Glu Gln Glu Lys Thr Phe Phe Thr Leu
  1      5      10      15
Leu Val Leu Leu Gly Tyr Leu Ser Cys Lys Val Thr Cys Glu Ser Gly
      20      25      30
Asp Cys Arg Gln Gln Glu Phe Arg Asp Arg Ser Gly Asn Cys Val Pro
      35      40      45
Cys Asn Gln Cys Gly Pro Gly Met Glu Leu Ser Lys Glu Cys Gly Phe
      50      55      60
Gly Tyr Gly Glu Asp Ala Gln Cys Val Thr Cys Arg Leu His Arg Phe
      65      70      75      80
Lys Glu Asp Trp Gly Phe Gln Lys Cys Lys Pro Cys Leu Asp Cys Ala
      85      90      95
Val Val Asn Arg Phe Gln Lys Ala Asn Cys Ser Ala Thr Ser Asp Ala
      100     105     110
Ile Cys Gly Asp Cys Leu Pro Gly Phe Tyr Arg Lys Thr Lys Leu Val
      115     120     125
Gly Phe Gln Asp Met Glu Trp Trp Xaa Ala Leu Val Gly Arg Thr Pro
      130     135     140
Phe Leu Pro Ser Leu Tyr Gly Asn Pro Ala Leu Gly Cys Gln Pro Arg
      145     150     155     160
Val Gln Thr Phe Gly Glu
      165 166

```

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<210> 1765
<211> 90
<212> PRT
<213> Homo sapiens

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<400> 1765

```

Met Ser Cys Ser Cys Pro Pro Cys Phe Phe Thr Leu Phe Leu His Ser
 1          5          10          15
Ile Cys Gln Asp Ile Ser Trp Phe His Pro Gln Thr Pro Thr Leu Asp
          20          25          30
Ser Leu Leu Asn Trp Ile Asp Asp Leu Ile Phe Tyr Gly Thr Leu Tyr
          35          40          45
Asn Phe Phe Pro Glu Glu Thr Pro Leu Phe Thr Phe Leu Leu Thr Leu
          50          55          60
Tyr Leu Ser Leu Leu Leu Trp Leu Pro Gly Met Ala Ala Leu Pro
          65          70          75          80
Leu Ala Val Met Pro Asn Tyr Leu Tyr Lys
          85          90

```

<210> 1766

<211> 57

<212> PRT

<213> Homo sapiens

<400> 1766

```

Met Pro Ala Leu Arg Pro Ala Leu Leu Trp Ala Leu Leu Ser Leu Trp
 1          5          10          15
Leu Cys Cys Ala Thr Pro Ala Pro Ala Leu Gln Cys Pro Glu Gly Tyr
          20          25          30
Glu Pro Ser Pro Leu Asp Arg Lys Cys Ala Pro Tyr Pro Asn Val Arg
          35          40          45
Arg Ser Cys Pro Cys Pro Glu Gly Phe
          50          55          57

```

<210> 1767

<211> 63

<212> PRT

<213> Homo sapiens

<400> 1767

```

Met Val Phe Leu Tyr Gly Phe Val Phe Ile Lys Lys Ala Gln Leu Ile
 1          5          10          15
Val Val Leu Leu Phe Thr Asp Val Ala Gln Arg Thr Ala Ala Gly Arg
          20          25          30
Pro Pro Thr Pro Val Leu Gly Pro Pro Ser Pro Glu Cys Cys Leu Leu
          35          40          45
Phe Met Glu Gly Glu Gln Trp Ile Leu Gly Thr Thr Gly Gln Ala
          50          55          60          63

```

<210> 1768

<211> 174

<212> PRT

<213> Homo sapiens

<400> 1768

```

Met Pro Ser Gly Cys Arg Cys Leu His Leu Val Cys Leu Leu Cys Ile
 1          5          10          15
Leu Gly Ala Pro Gly Gln Pro Val Arg Ala Asp Asp Cys Ser Ser His
          20          25          30
Cys Asp Leu Ala His Gly Cys Cys Ala Pro Asp Gly Ser Cys Arg Cys
          35          40          45
Asp Pro Gly Trp Glu Gly Leu His Cys Glu Arg Cys Val Arg Met Pro
          50          55          60
Gly Cys Gln His Gly Thr Cys His Gln Pro Trp Gln Cys Ile Cys His
          65          70          75          80
Ser Gly Trp Ala Gly Lys Phe Cys Asp Lys Asp Glu His Ile Cys Thr
          85          90          95
Thr Gln Ser Pro Cys Gln Asn Gly Gly Gln Cys Met Tyr Asp Gly Gly
          100          105          110
Gly Glu Tyr His Cys Val Cys Leu Pro Gly Phe His Gly Arg Asp Cys
          115          120          125
Glu Arg Lys Ala Gly Pro Cys Glu Gln Ala Gly Ser Pro Cys Arg Asn
          130          135          140
Gly Gly Gln Cys Gln Asp Gln Gly Phe Ala Leu Asn Phe Thr Cys
          145          150          155          160
Arg Cys Leu Val Gly Phe Val Gly Ala Arg Cys Asp Val *
          165          170          173

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<210> 1769
 <211> 78
 <212> PRT
 <213> Homo sapiens

```

<400> 1769
Met Leu Cys Leu Cys Arg Phe Ala Cys Ser Arg Arg Phe Thr Ala Met
 1          5          10          15
Gly Leu Phe Cys Leu Ala Ser Leu Thr Leu His His Ile Phe Lys Val
          20          25          30
His Pro Ser Cys Ser Val Ser Val Pro Pro Gly Phe Ser Leu Leu Ser
          35          40          45
Ser Ala Arg Cys Met Asp Arg Pro Arg Cys Ala His Leu Phe Ala Leu
          50          55          60
Met Gly Pro Cys Leu Gly Leu Ser Thr Phe Gly Arg Leu *
          65          70          75          77

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<210> 1770
 <211> 149
 <212> PRT
 <213> Homo sapiens

```

<400> 1770
Met Leu Val Thr Leu Gly Leu Leu Thr Ser Phe Phe Ser Phe Leu Tyr
 1          5          10          15
Met Val Ala Pro Ser Ile Arg Lys Phe Phe Ala Gly Gly Val Cys Arg
          20          25          30
Thr Asn Val Gln Leu Pro Gly Lys Val Val Val Ile Thr Gly Ala Asn
          35          40          45
Thr Gly Ile Gly Lys Glu Thr Ala Arg Glu Leu Ala Ser Arg Gly Ala

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```

      50              55              60
Arg Val Tyr Ile Ala Cys Arg Asp Val Leu Lys Gly Glu Ser Ala Ala
 65              70              75              80
Ser Glu Ile Arg Val Asp Thr Lys Asn Ser Gln Val Leu Val Arg Lys
      85              90              95
Leu Asp Leu Ser Asp Thr Lys Ser Ile Arg Ala Phe Ala Glu Gly Phe
      100              105              110
Leu Ala Glu Glu Lys Gln Leu His Ile Leu Ile Asn Asn Ala Gly Val
      115              120              125
Met Met Cys Pro Tyr Ser Lys Thr Ala Asp Gly Phe Glu Thr His Leu
      130              135              140
Gly Val Asn His Leu
145              149

```

<210> 1771
 <211> 76
 <212> PRT
 <213> Homo sapiens

```

      <400> 1771
Met Met Thr Leu Leu Arg Arg Gln Glu Arg Phe Pro Gly Ile Thr Phe
  1              5              10              15
Trp Leu Leu Ile Gln Leu Leu Gln Gln Ile Leu Ile Ser Tyr His Gln
      20              25              30
Gly Ser Leu Thr Phe Met Glu Asn Gly Asn Cys Leu Leu Gln Leu Phe
      35              40              45
Gln Leu Gly Lys Leu Leu Val Gln Ala Ser His Leu His Gly Gln Leu
      50              55              60
Leu Val Phe Val Gln Lys Ile Ile Ile Ser Met *
      65              70              75

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<210> 1772
 <211> 128
 <212> PRT
 <213> Homo sapiens

```

      <400> 1772
Met Gly Ser Thr Lys His Trp Gly Glu Trp Leu Leu Asn Leu Lys Val
  1              5              10              15
Ala Pro Ala Gly Val Phe Gly Val Ala Phe Leu Ala Arg Val Ala Leu
      20              25              30
Val Phe Tyr Gly Val Phe Gln Asp Arg Thr Leu His Val Arg Tyr Thr
      35              40              45
Asp Ile Asp Tyr Gln Val Phe Thr Asp Ala Ala Arg Phe Val Thr Glu
      50              55              60
Gly Arg Ser Pro Tyr Leu Arg Ala Thr Tyr Arg Tyr Thr Pro Leu Leu
      65              70              75              80
Gly Trp Leu Leu Thr Pro Asn Ile Tyr Leu Ser Glu Leu Phe Gly Lys
      85              90              95
Phe Leu Phe Ile Ser Cys Asp Leu Leu Thr Ala Phe Leu Leu Tyr Arg
      100              105              110
Leu Leu Leu Leu Lys Gly Leu Gly Arg Arg Gln Ala Cys Gly Tyr Cys
      115              120              125              128

```